

DESCRIPTION

2,3-DIHYDRO-6-NITROIMIDAZO[2,1-b]OXAZOLE COMPOUND

TECHNICAL FIELD

The present invention relates to a 2,3-dihydroimidazo[2,1-b]oxazole compound.

BACKGROUND ART

5 From among acid-fast bacteria, human Mycobacterium tuberculosis has been widely known. It is said that the one-third of the human population is infected with this bacterium. In addition to the human Mycobacterium tuberculosis, Mycobacterium africanum and
10 Mycobacterium bovis have also been known to belong to the Mycobacterium tuberculosis group. These bacteria are known as Mycobacteria having a strong pathogenicity to humans.

 Against these tuberculosis, treatment is
15 carried out using three agents, rifampicin, isoniazid, and ethambutol (or streptomycin) that are regarded as first-line agents, or using four agents such as the above three agents and pyrazinamide.

 However, since the treatment of tuberculosis
20 requires extremely long-term administration of agents, it might result in poor compliance, and the treatment often ends in failure.

 Moreover, in respect of the above agents, it

has been reported that: rifampicin causes hepatopathy, flu syndrome, drug allergy, and its concomitant administration with other drugs is contraindicated due to P450-associated enzyme induction; that isoniazid
5 causes peripheral nervous system disorder and induces serious hepatopathy when used in combination with rifampicin; that ethambutol brings on failure of eyesight due to optic nerve disorder; that streptomycin brings on diminution of the hearing faculty due to the
10 8th cranial nerve disorder; and that pyrazinamide causes adverse reactions such a hepatopathy, gouty attack associated with increase of uric acid level, vomiting (A Clinician's Guide To Tuberculosis, Michael D. Iseman 2000 by Lippincott Williams & Wilkins,
15 printed in the USA, ISBN 0-7817-1749-3, Tuberculosis, 2nd edition, Fumiyuki Kuze and Takahide Izumi, Igaku-Shoin Ltd., 1992).

Actually, it has been reported that cases where the standard chemotherapy could not be carried
20 out due to the adverse reactions to these agents made up 70% (approximately 23%, 52 cases) of the total cases where administration of the agents was discontinued (the total 228 hospitalized patients who were subject to the research) (Kekkaku, Vol. 74, 77-82, 1999).

25 In particular, hepatotoxicity, which is induced by rifampicin, isoniazid, and ethambutol out of the 5 agents used in combination for the aforementioned first-line treatment, is known as an adverse reaction

that is developed most frequently. At the same time, Mycobacterium tuberculosis resistant to antitubercular agents, multi-drug-resistant Mycobacterium tuberculosis, and the like have been increasing, and
5 the presence of these types of Mycobacterium tuberculosis makes the treatment more difficult.

According to the investigation made by WHO (1996 to 1999), the proportion of Mycobacterium tuberculosis that is resistant to any of the existing
10 antitubercular agents to the total types of Mycobacterium tuberculosis that have been isolated over the world reaches 19%, and it has been published that the proportion of multi-drug-resistant Mycobacterium tuberculosis is 5.1%. The number of carriers infected
15 with such multi-drug-resistant Mycobacterium tuberculosis is estimated to be 60,000,000, and concerns are still rising that multi-drug-resistant Mycobacterium tuberculosis will increase in the future (April 2001 as a supplement to the journal
20 Tuberculosis, the "Scientific Blueprint for TB Drug Development.")

In addition, the major cause of death of AIDS patients is tuberculosis. It has been reported that the number of humans suffering from both tuberculosis
25 and HIV reaches 10,700,000 at the time of year 1997 (Global Alliance for TB drug development). Moreover, it is considered that the mixed infection of tuberculosis and HIV has an at least 30 times higher

risk of developing tuberculosis than the ordinary circumstances.

Taking into consideration the aforementioned current situation, the profiles of the desired antitubercular agent is as follows: (1) an agent, which is effective even for multi-drug-resistant Mycobacterium tuberculosis, (2) an agent enabling a short-term chemotherapy, (3) an agent with fewer adverse reactions, (4) an agent showing an efficacy to latent infecting Mycobacterium tuberculosis (i.e., latent Mycobacterium tuberculosis), and (5) an orally administrable agent.

Examples of bacteria known to have a pathogenicity to humans include offending bacteria of recently increasing MAC infection (Mycobacterium avium-intracellulare complex infection) such as Mycobacterium avium and Mycobacterium intracellulare, and atypical acid-fast bacteria such as Mycobacterium kansasii, Mycobacterium marinum, Mycobacterium simiae, Mycobacterium scrofulaceum, Mycobacterium szulgai, Mycobacterium xenopi, Mycobacterium malmoense, Mycobacterium haemophilum, Mycobacterium ulcerans, Mycobacterium shimoidei, Mycobacterium fortuitum, Mycobacterium chelonae, Mycobacterium smegmatis, and Mycobacterium aurum.

Nowadays, there are few therapeutic agents effective for these atypical acid-fast bacterial infections. Under the presence circumstances,

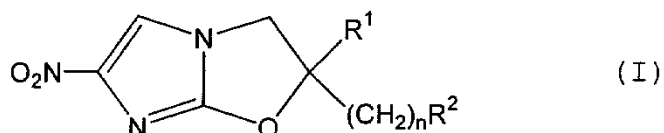
antitubercular agents such as rifampicin, isoniazid, ethambutol, streptomycin and kanamycin, a newquinolone agent that is a therapeutic agent for common bacterial infections, macrolide antibiotics, aminoglycoside
5 antibiotics, and tetracycline antibiotics are used in combination.

However, when compared with the treatment of common bacterial infections, the treatment of atypical acid-fast bacterial infections requires a long-term
10 administration of agents, and there have been reported cases where the infection is changed to an intractable one, finally leading to death. To break the aforementioned current situation, the development of an agent having a stronger efficacy is desired.

15 For example, National Publication of International Patent Application No. 11-508270 (WO97/01562) discloses that a 6-nitro-1,2,3,4-tetrahydro[2,1-b]-imidazopyran compound has a bactericidal action in vitro to Mycobacterium tuberculosis (H37Rv strain) and
20 multi-drug-resistant Mycobacterium tuberculosis, and that the above compound has a therapeutic effect to a tuberculosis-infected animal model when it is orally administered and thus useful as antitubercular agent.

However, the compound described in the above
25 publication differs from the compound of the present invention in terms of the basic skeleton, and it is considered to be a compound nonsimilar to the inventive compound.

Kuppsuwamy Nagarajan et al. have reported on European Journal of Medicinal Chemistry, 1989, Vol. 24, pp.631-633 that compounds represented by the following general formula (I):



5 wherein R^1 represents a hydrogen atom or methyl group and $-(CH_2)_nR^2$ represents a chloromethyl group, C1-C7 alkyl group, isopropoxymethyl group, 3-propenyloxy-methyl group, or unsubstituted phenoxy-methyl group, and compounds represented by the same above general formula
10 (I), wherein R^1 and $-(CH_2)_nR^2$ bind to each other to form a cyclopentane or cyclohexane ring (16 types of compounds in total) have a bactericidal action to Mycobacterium tuberculosis (H37Rv strain).

However, the above publication describes that
15 only the 4 types of compounds out of the above compounds are effective when they are orally administered. It also describes that the compound having the highest activity, that is, the compound (CGI-17341) represented by the above general formula
20 (I) wherein R^1 represents a hydrogen atom and $-(CH_2)_nR^2$ represents ethyl, was found to have mutagenicity, and that accordingly, the development of these series of compounds as agents were abandoned.

In addition, Dilip R. Astekar et al. have reported on Antimicrobial Agents and Chemotherapy, Feb. 1993, pp. 183-186 about the antimicrobial profile of the above compound CGI-17341. According to the report,
5 the compound CGI-17341 has a bactericidal action to Mycobacterium tuberculosis (H37Rv strain) and multi-drug-resistant Mycobacterium tuberculosis, but it does not have the activity to atypical acid-fast bacteria, M. avium, M. intracellulare, and M. fortuitum when it
10 is used at 250 µg/ml or less.

DISCLOSURE OF THE INVENTION

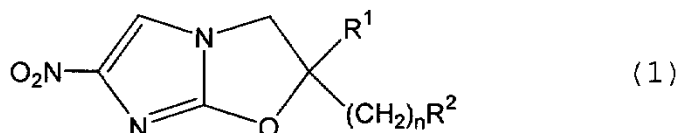
It is an object of the present invention to provide a compound having an excellent bactericidal action to Mycobacterium tuberculosis and multi-drug-
15 resistant Mycobacterium tuberculosis.

It is another object of the present invention to provide a compound having an excellent bactericidal action to atypical acid-fast bacteria.

As a result of intensive studies, the present
20 inventors have succeeded in synthesizing a novel 2,3-dihydroimidazo[2,1-b]oxazole compound, which has an excellent bactericidal action to Mycobacterium tuberculosis, multi-drug-resistant Mycobacterium tuberculosis, and atypical acid-fast bacteria. The
25 present invention have completed based on such findings.

The present invention provides a 2,3-dihydro-

6-nitroimidazo[2,1-b]oxazole compound represented by the following general formula (1), optically active form thereof, or pharmaceutically acceptable salt thereof:



5 wherein R^1 represents a hydrogen atom or C1-6 alkyl group, n represents an integer of 0 to 6, and R^2 represents a group represented by general formula (A), (B), (C), (D), (E), (F) or (G) indicated below, and further, R^1 and $-(CH_2)_nR^2$ may bind to each other together
 10 with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H) indicated below.

General formulas (A) - (H) will be described as follows:

15 a group represented by the following general formula (A):



wherein R^3 represents:

- A1) hydrogen atom;
- 20 A2) C1-6 alkyl group;
- A3) C1-6 alkoxy-C1-6 alkyl group
- A4) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group

selected from the group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a phenoxy group which may
 5 have, as a substituent, at least one halogen-substituted or unsubstituted C1-6 alkoxy group on the phenyl ring);

A5) biphenylyl C1-6 alkyl group;

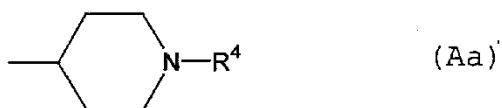
A6) phenyl C2-6 alkenyl group:

10 A7) C1-6 alkylsulfonyl group;

A8) benzenesulfonyl group which may be substituted by a C1-6 alkyl group;

A9) C1-6 alkanoyl group;

A10) a group represented by the following
 15 general formula (Aa):



wherein R⁴ represents a C1-6 alkoxy carbonyl group; phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting
 20 of a phenyl C1-6 alkoxy group, a halogen-substituted or
 25 of a phenyl C1-6 alkoxy group, a halogen-substituted or

unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

A11) biphenyl C1-6 alkoxy carbonyl group;

A12) benzoxazolyl C1-6 alkyl group (which may be substituted on the benzoxazole ring by at least one oxo group as a substituent);

A13) benzoxazolyl group; or

A14) oxazolyl C1-6 alkyl group (which may be substituted on the oxazole ring by at least one group selected from the group consisting of a phenyl group and C1-6 alkyl group as a substituent),

a group represented by the following general formula (B):

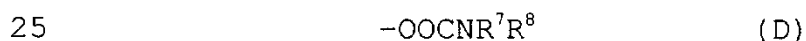


wherein R^5 represents a tetrazolyl group (which may be substituted on the tetrazole ring by a C1-6 alkyl group or phenyl group which may have a halogen atom as a substituent), or benzoxazolyl group,

a group represented by the following general formula (C):



wherein R^6 represents a C1-6 alkyl group, a carbamoyloxy group represented by the following general formula (D):



wherein R^7 and R^8 each identically or differently represent any one of:

D1) hydrogen atom;

D2) C1-8 alkyl group;

D3) halogen-substituted C1-6 alkyl group;

D4) C1-6 alkoxy carbonyl-C1-6 alkyl group;

D5) C3-8 cycloalkyl group;

5 D6) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

10

 D7) phenyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a

15 halogen-substituted or unsubstituted C1-6 alkoxy group, a C1-6 alkanoyl group, a carboxyl group, a C1-6 alkoxy carbonyl group, a phenyl C1-6 alkoxy carbonyl group, a carbamoyl group, a C1-6 alkyl carbamoyl group, an aminosulfonyl group, and a morpholino group);

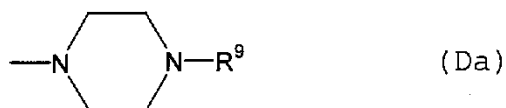
20 D8) naphthyl group;

 D9) pyridyl group; and

 D10) R⁷ and R⁸ may bind to each other together with nitrogen atoms adjacent thereto directly or through other hetero atoms or carbon atoms, so as to

25 form a saturated heterocyclic group shown in any one of (D10-1) to (D10-3) indicated below, or benzene condensed heterocyclic group shown in any one of (D10-4) to (D10-7) indicated below:

(D10-1) piperazinyll group represented by the following general formula (Da):



wherein R^9 represents:

(Da1) hydrogen atom;

5 (Da2) C1-6 alkyl group;

(Da3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Da4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Da5) C1-6 alkoxy carbonyl group;

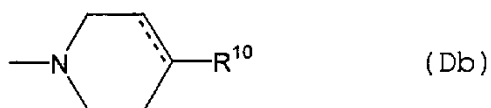
(Da6) phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6

alkoxy group);

(Da7) phenyl C3-6 alkenyloxycarbonyl group (which may have at least one halogen-substituted or unsubstituted C1-6 alkyl group on the phenyl ring); or

5 (Da8) phenyl C1-6 alkylidene substituted amino group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent),

(D10-2) a group represented by the following
10 general formula (Db):



wherein the dotted line represents that the bond may be a double bond, and R¹⁰ represents:

(Db1) hydrogen atom;

(Db2) phenyl group (which may be substituted
15 on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

20 (Db3) phenoxy group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group); or

(Db4) phenylamino group (which may be substi-

tuted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group),

(D10-3) morpholino group;

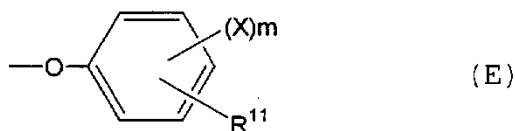
(D10-4) indolinyl group (which may be substituted on the indoline ring by at least one halogen atom as a substituent);

(D10-5) isoindolinyl group (which may be substituted on the isoindoline ring by at least one halogen atom as a substituent);

(D10-6) 1,2,3,4-tetrahydroquinolyl group, (which may be substituted on the 1,2,3,4-tetrahydroquinoline ring by at least one halogen atom as a substituent); and

(D10-7) 1,2,3,4-tetrahydroisoquinolyl group, (which may be substituted on the 1,2,3,4-tetrahydroisoquinoline ring by at least one halogen atom as a substituent),

a phenoxy group represented by the following general formula (E):



wherein X represents a halogen atom or amino substituted C1-6 alkyl group which may have a C1-6 alkyl group as a substituent, m represents an integer of 0 to 3, and R¹¹ represents:

E1) hydrogen atom;

E2) halogen-substituted or unsubstituted C1-6 alkyl group;

E3) halogen-substituted or unsubstituted C1-6 alkoxy group;

E4) a group represented by the following general formula (Ea):



wherein W represents a group -CO- or a C1-6 alkylene group, o represents an integer of 0 or 1, and R¹² and R¹³ each identically or differently represent any one of:

(Ea1) hydrogen atom;

(Ea2) C1-6 alkyl group;

(Ea3) C1-6 alkanoyl group;

(Ea4) C1-6 alkoxycarbonyl group;

(Ea5) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), and the alkyl portion may be substituted by a C1-6 alkoxyimino group);

(Ea6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a
5 halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ea7) benzoyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a
10 halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ea8) pyridyl group (which may be substituted on the pyridine ring by at least one halogen atom as a
15 substituent);

(Ea9) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
20 group);

(Ea10) phenoxy C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
25 group); and

(Ea11) benzoyl C1-6 alkyl group (which may be

substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

E5) imidazolyl group;

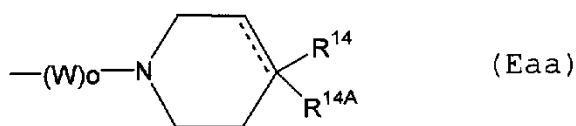
E6) triazolyl group;

E7) morpholino group;

E8) thiomorpholino group;

E9) s-oxide thiomorpholino group;

E10) piperidyl group represented by the following general formula (Eaa):



wherein W and o are the same as above, R^{14A} represents a hydrogen atom, hydroxyl group, C1-6 alkoxy group, or phenyl group (which may be substituted by halogen on the phenyl ring); the dotted line represents that the bond may be a double bond, and when the dotted line represents a double bond, it means that only R^{14} is substituted; R^{14} and R^{14A} may bind to each other together with carbon atoms adjacent thereto to form a C1-4 alkylenedioxy group, and R^{14} represents:

(Eaa1) hydrogen atom;

(Eaa2) C1-6 alkoxy carbonyl group;

(Eaa3) phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a
5 halogen-substituted or unsubstituted C1-6 alkoxy group; a C1-4 alkylenedioxy group; a C1-6 alkoxy carbonyl group; a cyano group; a C2-6 alkenyl group; a nitro group; a phenyl group; an amino group which may have, as a substituent, a group selected from the group
10 consisting of a phenyl group, a C1-6 alkyl group, a carbamoyl group and a C1-6 alkanoyl group; a C1-6 alkanoyl-substituted C1-6 alkyl group; a hydroxyl group; a C1-6 alkoxy carbonyl-substituted C1-6 alkyl group; a phenyl C1-6 alkyl group; a C1-6 alkanoyl
15 group; a C1-6 alkylthio group; a 1,2,4-triazolyl group; an isoxazolyl group; an imidazolyl group; a benzothiazolyl group; a 2H-benzotriazolyl group; a pyrrolyl group; a benzoxazolyl group; a piperazinyl group (which may be substituted on the piperazine ring by at least
20 one group selected from the group consisting of a C1-6 alkoxy carbonyl group and a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted
25 C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent); a piperidinyl group (which may be substituted on the piperidine ring by at least one group selected from the

group consisting of an amino group (which may be substituted on the amino group by at least one group selected from the group consisting of a C1-6 alkyl group and a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent); and a carbamoyl group));

10 (Eaa4) hydroxyl group;

(Eaa5) carboxy group;

(Eaa6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent);

(Eaa7) C1-6 alkoxy group;

(Eaa8) C3-8 cycloalkyl-C1-6 alkoxy group;

25 (Eaa9) phenylcarbamoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group,

and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eaa10) tetrahydropyranyloxy group;

(Eaa11) 1,3-dioxolanyl group;

5 (Eaa12) oxo group;

(Eaa13) naphthyloxy group (which may be substituted on the naphthalene ring by at least one C1-6 alkyl group as a substituent);

(Eaa14) 2,3-dihydrobenzofuryloxy group (which
10 may be substituted on the 2,3-dihydrobenzofuran ring by at least one group selected from the group consisting of a C1-6 alkyl group and an oxo group);

(Eaa15) benzothiazolyloxy group (which may be substituted on the benzothiazole ring by at least one
15 C1-6 alkyl group);

(Eaa16) 1,2,3,4-tetrahydronaphthyloxy group (which may be substituted on the 1,2,3,4-tetrahydronaphthalene ring by at least one oxo group as a substituent);

20 (Eaa17) 1,3-benzoxathiolanyloxy group (which may be substituted on the 1,3-benzoxathiolan ring by at least one oxo group as a substituent);

(Eaa18) isoquinolyloxy group;

(Eaa19) pyridyloxy group;

25 (Eaa20) quinolyloxy group (which may be substituted on the quinoline ring by at least one C1-6 alkyl group as a substituent);

(Eaa21) dibenzofuryloxy group;

(Eaa22) 2H-chromenyloxy group (which may be substituted on the 2H-chromen ring by at least one oxo group as a substituent);

(Eaa23) benzisoxazolyloxy group;

5 (Eaa24) quinoxalyloxy group;

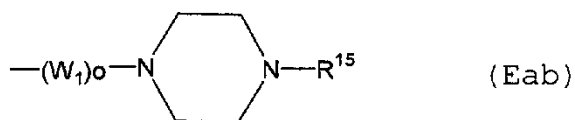
(Eaa25) 2,3-dihydro-1H-indenyloxy group (which may be substituted on the 2,3-dihydro-1H-indene ring by at least one oxo group as a substituent);

(Eaa26) benzofurazanyloxy group; or

10 (Eaa27) phenyl C2-6 alkenyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

15

E11) a group represented by the following general formula (Eab):



wherein o is the same as above, W_1 represents a C1-C6 alkylene group and R^{15} represents:

20 (Eab1) hydrogen atom;

(Eab2) C1-6 alkyl group (wherein the alkyl group may be substituted by a morpholino group, benzoyl group, carbamoyl group which may have a C1-6 alkyl

group as a substituent, or cyano group);

(Eab3) C3-8 cycloalkyl group;

(Eab4) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group
5 selected from the group consisting of a halogen atom, a cyano group, a phenyl group, a nitro group, a C1-6 alkylthio group, a C1-6 alkylsulfonyl group, a phenyl C1-6 alkoxy group, a C2-6 alkanoyloxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, a
10 halogen-substituted or unsubstituted C1-6 alkoxy group, and a 1,2,3-thiadiazolyl group);

(Eab5) C2-6 alkenyl group;

(Eab6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from
15 the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eab7) C1-6 alkanoyl group;

(Eab8) phenyl C2-6 alkanoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
25 group);

(Eab9) benzoyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom, a

halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eab10) C1-20 alkoxycarbonyl group (which may
5 be substituted on the alkoxy group by at least one group selected from the group consisting of a halogen atom, an amino group which may have a C1-6 alkyl group as a substituent, and a C1-6 alkoxy-substituted C1-6 alkoxy group);

10 (Eab11) phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubsti-
15 tuted C1-6 alkoxy group, a nitro group, a halogen-substituted or unsubstituted C1-6 alkylthio group, an amino group which may have a C1-6 alkanoyl group, a phenyl C1-6 alkoxy group, a C1-6 alkoxycarbonyl group, and a 1,2,3-thiadiazolyl group);

20 (Eab12) a phenyl C3-6 alkenyloxycarbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or
25 unsubstituted C1-6 alkoxy group);

(Eab13) phenoxycarbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a

halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
group);

(Eab14) phenyl C1-6 alkylcarbamoyl group
5 (which may be substituted on the phenyl ring by at
least one group selected from the group consisting of a
halogen atom, a halogen-substituted or unsubstituted
C1-6 alkyl group, and a halogen-substituted or
unsubstituted C1-6 alkoxy group);

10 (Eab15) phenylcarbamoyl group (which may be
substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
15 group);

(Eab16) benzofuryl-substituted C1-6
alkoxycarbonyl group which may be substituted by at
least one halogen atom on the benzofuran ring;

(Eab17) benzothienyl C1-6 alkoxycarbonyl
20 group (which may be substituted on the benzothiophene
ring by at least one group selected from the group
consisting of a halogen atom and a halogen-substituted
or unsubstituted C1-6 alkoxy group as a substituent);

(Eab18) naphthyl-substituted C1-6 alkoxy-
25 carbonyl group;

(Eab19) pyridyl-substituted C1-6 alkoxy-
carbonyl group (which may be substituted on the
pyridine ring by at least one halogen atom as a

substituent);

(Eab20) furyl-substituted C1-6 alkoxy-carbonyl group (which may be substituted on the furan ring by at least one nitro group as a substituent);

5 (Eab21) thienyl-substituted C1-6 alkoxy-carbonyl group (which may have at least one halogen atom as a substituent on the thiophene ring);

(Eab22) thiazolyl-substituted C1-6 alkoxy-carbonyl group (which may be substituted on the
10 thiazole ring by at least one group selected from the group consisting of a C1-6 alkyl group and a phenyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group));

15 (Eab23) tetrazolyl-substituted C1-6 alkoxy-carbonyl group (which may be substituted on the tetrazole ring by at least one group selected from the group consisting of a C1-6 alkyl group and a phenyl group (which may have at least one halogen atom as a
20 substituent on the phenyl ring) as a substituent);

(Eab24) 2,3-dihydro-1H-indenyloxycarbonyl group;

(Eab25) adamantane-substituted C1-6 alkoxy-carbonyl group;

25 (Eab26) phenyl C3-6 alkynyloxycarbonyl group;

(Eab27) phenylthio C1-6 alkoxy-carbonyl group;

(Eab28) phenyl C1-6 alkoxy-substituted C1-6 alkoxy-carbonyl group;

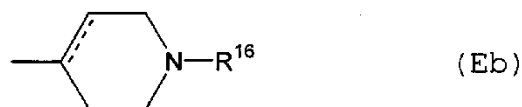
(Eab29) C2-6 alkenyloxycarbonyl group;

(Eab30) C2-6 alkynyloxycarbonyl group;

(Eab31) C3-8 cycloalkyl-substituted C1-6 alkoxy-
carbonyl group; or

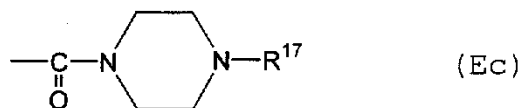
5 (Eab32) benzoyl-substituted C1-6 alkoxy-
carbonyl group,

E12) a group represented by the following
general formula (Eb):



wherein the dotted line represents that the
10 bond may be a double bond, and R^{16} is defined as the
same as R^{15} ;

E13) a group represented by the following
general formula (Ec):



wherein R^{17} represents:

15 (Ec1) phenyl C1-6 alkyl group (which may be
substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,

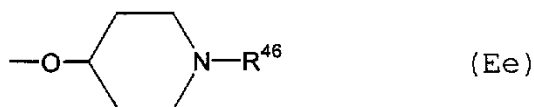
and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ec2) C1-6 alkoxy carbonyl group; or

(Ec3) phenyl C1-6 alkoxy carbonyl group (which
5 may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

10 E14) pyridyl group;

E15) a group represented by the following general formula (Ee):



wherein R⁴⁶ represents a phenyl group (which
may be substituted on the phenyl ring by at least one
15 group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at
20 least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkoxy-

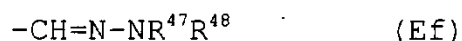
carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or C1-6 alkoxy carbonyl group,

E16) phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

E17) benzoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

E18) 8-azabicyclo[3,2,1]octyl group (which may be substituted on the 8-azabicyclo[3,2,1]octane ring by at least one phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent);

E19) a group represented by the following general formula (Ef):



wherein R^{47} and R^{48} each identically or differently represent any one of a hydrogen atom, a C1-6 alkyl group, a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group), or a pyridyl group (which may be substituted on the pyridine ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent); and further, R^{47} and R^{48} may bind to each other together with nitrogen atoms adjacent thereto directly or through other hetero atoms, so as to form a 5-7 membered saturated heterocyclic ring, which may be substituted on the heterocyclic ring by at least one phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent;

E20) phenyl C1-6 alkoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

E21) amino substituted C2-6 alkenyl group
 (which may be substituted on the amino group by at
 least one group selected from the group consisting of a
 C1-6 alkyl group and a phenyl group (which may be
 5 substituted on the phenyl ring by at least one group
 selected from the group consisting of a halogen atom, a
 halogen-substituted or unsubstituted C1-6 alkyl group,
 and a halogen-substituted or unsubstituted C1-6 alkoxy
 group)); or

10 E22) oxazolidinyl group (which may be
 substituted on the oxazolidine ring by at least one oxo
 group as a substituent),

a group represented by the following general
 formula (F):

15
$$-\text{NR}^{19}\text{R}^{20} \quad (\text{F})$$

wherein R^{19} and R^{20} each identically or
 differently represent any one of:

F1) hydrogen atom;

F2) C1-6 alkyl group;

20 F3) phenyl C1-6 alkyl group (which may be
 substituted on the phenyl ring by at least one group
 selected from the group consisting of: a phenoxy group
 (which may be substituted on the phenyl ring by at
 least one group selected from the group consisting of a
 25 halogen atom, a halogen-substituted or unsubstituted
 C1-6 alkyl group, and a halogen-substituted or
 unsubstituted C1-6 alkoxy group); a halogen atom; a
 halogen-substituted or unsubstituted C1-6 alkyl group;

a halogen-substituted or unsubstituted C1-6 alkoxy group; an amino group which may have at least one group selected from the group consisting of a C1-6 alkyl group, and a phenyl C1-6 alkyl group (which may be

5 substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a piperazinyl group (which may be substituted

10 on the piperazine ring by at least one phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-

15 substituted or unsubstituted C1-6 alkoxy group) as a substituent); and a piperidyl group (which may be substituted on the piperidine ring by at least one amino group which may have a group selected from the group consisting of a phenyl group (which may be

20 substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) and a C1-6 alkyl group as a substituent));

25 F4) phenoxy C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group,

and a halogen-substituted or unsubstituted C1-6 alkoxy group);

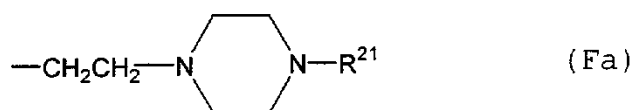
5 F5) amino C1-6 alkyl group (which may be substituted on the amino group by at least one group selected from the group consisting of a C1-6 alkyl group, a C1-6 alkoxy-carbonyl group, and a phenyl group which may be substituted on the phenyl group by at least one group selected from a group consisting of a halogen atom and a halogen-substituted or unsubstituted
10 C1-6 alkyl group);

F6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a phenoxy group (which may be substituted on the phenyl ring by at
15 least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group), and a C1-6 alkoxy-carbonyl group);

20 F7) C1-6 alkoxy-carbonyl group;

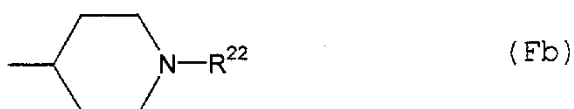
F8) phenyl C1-6 alkoxy-carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl
25 group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

F9) a group represented by the following general formula (Fa):



wherein R^{21} represents a C1-6 alkoxy carbonyl group; phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom and a halogen-substituted or unsubstituted C1-6 alkyl group); or phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

F10) 1-substituted-4-piperidyl group represented by the following formula (Fb):

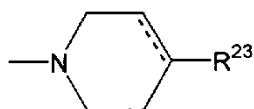


wherein R^{22} represents a C1-6 alkoxy carbonyl group; phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
 5 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a
 10 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

F11) piperidyl C1-6 alkyl group (which may have at least one phenoxy group (which may have at
 15 least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent) as a substituent);

F12) in addition, R^{19} and R^{20} may bind to each other together with nitrogen atoms adjacent thereto directly or through other hetero atoms or carbon atoms,
 20 so as to form a heterocyclic ring shown in any one of (F12-1) to (F12-10) indicated below:

(F12-1) a group represented by the following formula (Fc):



(Fc)

wherein the dotted line represents that the bond may be a double bond, and R^{23} represents:

(Fc1) C1-6 alkyl group;

(Fc2) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc3) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; an amino group which may have, as a substituent, a group selected from the group consisting of a C1-6 alkyl group and a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a phenyl C1-6 alkoxy group (which may be substituted on the phenyl ring by at least one group

selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); and a piperidyl group (which may have, on the
5 piperidine ring, as a substituent, at least one amino group that may have a group selected from the group consisting of a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
10 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) and a C1-6 alkyl group));

(Fc4) phenyl C1-6 alkoxy group (which may be substituted on the phenyl ring by at least one group
15 selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc5) biphenyl C1-6 alkoxy group;

20 (Fc6) phenyl C3-6 alkenyloxy group which may be substituted on the phenyl ring by at least one halogen atom;

(Fc7) phenoxy group (which may be substituted on the phenyl ring by at least one group selected from
25 the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc8) benzoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a
5 halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc9) C1-6 alkoxycarbonyl group;

(Fc10) phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by at
10 least one halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc11) phenyl C1-6 alkylcarbamoyl group wherein at least one halogen may be substituted on the phenyl ring;

15 (Fc12) phenylcarbamoyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
20 group);

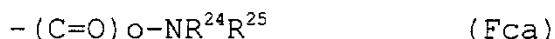
(Fc13) phenylthio group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc14) phenyl sulfoxide (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkoxy group);
25

(Fc15) pyridyl C1-6 alkoxy group; or

(Fc16) a group represented by the following

general formula (Fca):



wherein o is the same as above, and each of R^{24} and R^{25} represents:

- 5 (Fca1) hydrogen atom;
- (Fca2) C1-6 alkyl group;
- (Fca3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
- 10 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);
- (Fca4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from
- 15 the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);
- (Fca5) C1-6 alkanoyl group;
- 20 (Fca6) phenyl C2-6 alkanoyl group that may be substituted on the phenyl ring by at least one halogen atom;
- (Fca7) benzoyl group (which may be substituted on the phenyl ring by at least one group selected
- 25 from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fca8) C1-6 alkoxy carbonyl group;

(Fca9) phenyl C1-6 alkoxy carbonyl group
(which may be substituted on the phenyl ring by at
least one group selected from the group consisting of a
5 halogen atom, a halogen-substituted or unsubstituted
C1-6 alkyl group, and a halogen-substituted or
unsubstituted C1-6 alkoxy group);

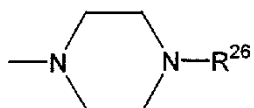
(Fca10) phenyl carbamoyl group (which may be
substituted on the phenyl ring by at least one halogen-
10 substituted or unsubstituted C1-6 alkyl group);

(Fca11) piperidyl oxycarbonyl group (which may
be substituted on the piperidine ring by at least one
phenyl group (which may be substituted on the phenyl
ring by at least one halogen-substituted or unsubsti-
15 tuted C1-6 alkyl group) as a substituent); or

(Fca12) R^{24} and R^{25} may form a 5-6 membered
saturated heterocyclic ring through nitrogen atoms
adjacent thereto, which may be substituted on the
heterocyclic ring by at least one group selected from
20 the group consisting of a C1-6 alkoxy carbonyl group; a
benzoyl group (which may be substituted on the phenyl
ring by at least one group selected from the group
consisting of a halogen atom, a halogen-substituted or
unsubstituted C1-6 alkyl group, and a halogen-
25 substituted or unsubstituted C1-6 alkoxy group); a
phenoxy group (which may be substituted on the phenyl
ring by at least one group selected from the group
consisting of a halogen atom, a halogen-substituted or

unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group
 5 consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by at least one group selected
 10 from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); a phenyl C2-6 alkenyl group (which may be substituted on the phenyl ring by at least one group
 15 selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); and a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the
 20 group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

(F12-2) 4-substituted-1-piperazinyl group
 25 represented by the following general formula (Fd):



(Fd)

wherein R^{26} represents:

(Fd1) hydrogen atom;

(Fd2) C1-6 alkyl group;

(Fd3) C3-8 cycloalkyl group;

5 (Fd4) C3-8 cycloalkyl C1-6 alkyl group;

(Fd5) C1-6 alkoxy carbonyl C1-6 alkyl group;

(Fd6) phenyl C2-6 alkenyl group;

(Fd7) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 3 groups

10 selected from the group consisting of: a halogen atom; a cyano group; a halogen-substituted or unsubstituted C1-6 alkyl group; C3-8 cycloalkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; an amino group which may have a C1-6 alkyl group as a
15 substituent; a C1-6 alkoxy carbonyl group; a phenoxy group; a phenyl C1-6 alkyl group; a phenyl C2-6 alkenyl group; a pyridyl group; an imidazolyl group; and a piperidyl group);

(Fd8) biphenyl C1-6 alkyl group (which may
20 be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and an amino group which may have a C1-6 alkyl
25 group as a substituent);

(Fd9) naphthyl C1-6 alkyl group;

(Fd10) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a cyano group; an amino group that may have a C1-6 alkyl group as a substituent; a halogen-substituted or unsubstituted C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; a C1-6 alkoxycarbonyl group; a carboxyl group, a phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); an amino C1-6 alkyl group (which may have on the amino group at least one group selected from the group consisting of a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) and a C1-6 alkyl group)); and a phenyl C1-6 alkoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group));

(Fd11) biphenyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl groups);

(Fd12) amino group, amino group which is substituted by a C1-6 alkoxy carbonyl group, phenyl C1-6 alkylamino group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group), or phenylamino group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen atom);

10 (Fd13) benzoyl C1-6 alkyl group (which may have on the phenyl ring at least one halogen atom as a substituent);

(Fd14) phenyl carbamoyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group);

(Fd15) thiazolyl C1-6 alkyl group (which may be substituted on the thiazole ring by at least one group selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group);

(Fd16) oxazolyl C1-6 alkyl group (which may be substituted on the oxazole ring by at least one group selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group);

(Fd17) indolyl C1-6 alkyl group;

(Fd18) furyl C1-6 alkyl group (which may be

substituted on the furan ring by at least one halogen-substituted or unsubstituted phenyl group);

(Fd19) imidazolyl C1-6 alkyl group (which may be substituted on the imidazole ring by a phenyl group);

(Fd20) quinolyl C1-6 alkyl group;

(Fd21) tetrazolyl group (which may be substituted on the tetrazole ring by a phenyl group);

(Fd22) pyrimidyl group which may be substituted by a phenyl group;

(Fd23) pyridyl group;

(Fd24) benzoxazolyl group;

(Fd25) benzothiazolyl group;

(Fd26) benzoxazolyl C1-6 alkyl group (which may have on the benzoxazole ring at least one oxo group as a substituent);

(Fd27) phenoxy C2-6 alkanoyl group which may be substituted on the phenyl ring by a halogen atom;

(Fd28) phenylthio C2-6 alkanoyl group which may be substituted on the phenyl ring by a halogen atom;

(Fd29) phenyl C2-6 alkanoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fd30) benzoyl group (which may be substi-

tuted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and an amino group which may have a C1-6 alkyl group as a substituent);

(Fd31) biphenylcarbonyl group;

(Fd32) pyridylcarbonyl group;

(Fd33) phenyl C2-6 alkenylcarbonyl group

10 wherein a halogen atom may be substituted on the phenyl ring;

(Fd34) phenyl C1-6 alkylsulfonyl group

wherein a halogen atom may be substituted on the phenyl ring;

15 (Fd35) benzenesulfonyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom and a C1-6 alkyl group);

(Fd36) a group represented by the following
20 general formula (Fda):



wherein R^{27} represents:

(Fda1) halogen-substituted or unsubstituted C1-8 alkyl group;

25 (Fda2) C3-8 cycloalkyl group;

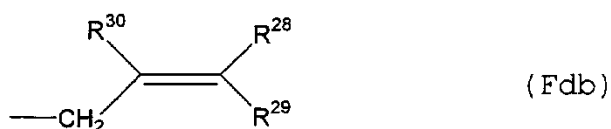
(Fda3) C3-8 cycloalkyl-C1-6 alkyl group;

(Fda4) C1-6 alkoxy-C1-6 alkyl group;

(Fda5) amino-C1-6 alkyl group which may have

a C1-6 alkyl group;

(Fda6) a group represented by the following general formula (Fdb):



wherein R²⁸, R²⁹, and R³⁰ represent a hydrogen
 5 atom, a C1-6 alkyl group, or a phenyl group (which may
 be substituted on the phenyl ring by at least one group
 selected from the group consisting of a halogen atom, a
 halogen-substituted or unsubstituted C1-6 alkyl group,
 and a halogen-substituted or unsubstituted C1-6 alkoxy
 10 group), respectively;

(Fda7) phenyl C1-6 alkyl group (which may be
 substituted on the phenyl ring by 1 to 5 groups
 selected from the group consisting of: a halogen atom;
 a halogen-substituted or unsubstituted C1-6 alkyl
 15 group; a halogen-substituted or unsubstituted C1-6
 alkoxy group; a halogen-substituted or unsubstituted
 C1-6 alkylthio group; a phenyl C1-6 alkoxy group; a
 hydroxy group; a C1-6 alkylsulfinyl group; a C1-6
 alkylsulfonyl group; C1-6 alkylsulfonyloxy group; a
 20 cyano group; a C1-6 alkanoyl group; a benzoyl group; a
 phenyl C1-6 alkyl group which may have a C1-6 alkoxy
 group in the alkyl portion; an amino group; a nitro
 group; a carbamoyl group; a C1-6 alkanoylamino group; a

C1-6 alkoxy carbonyl group; a C1-6 alkylaminocarbonyl group; a C1-6 alkoxy carbonylamino group; a tri-C1-6-alkylsiloxy group; a pyrrolyl group; a tetrahydro-pyranyloxy group; and an imidazolyl group);

5 (Fda8) biphenyl C1-6 alkyl group;

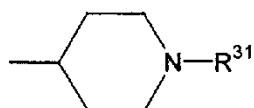
(Fda9) benzhydryl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom, a trifluoromethyl group, and a trifluoromethoxy group);

10 (Fda10) phenoxy C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
15 group);

(Fda11) phenyl C2-6 alkynyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent);

20 (Fda12) pyridyl C1-6 alkyl group;

(Fda13) a group represented by the following general formula (Fdc):



(Fdc)

wherein R³¹ represents a phenyl group (which

may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or benzoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

(Fda14) piperidino C1-6 alkyl group (which may be substituted on the piperidine ring by a phenoxy group which may have at least one halogen-substituted or unsubstituted alkyl group as a substituent on the phenyl ring);

(Fda15) amino C1-6 alkyl group which may have, as a substituent, at least one group selected from the group consisting of a C1-6 alkyl group and a phenyl group which may have, as a substituent, a halogen-substituted or unsubstituted C1-6 alkoxy group on the phenyl ring;

(Fda16) 1,2,3,6-tetrahydropyridyl C1-6 alkyl

group (which may be substituted on the 1,2,3,6-tetrahydropyridine ring by at least one phenyl group which may have, as a substituent, at least one halogen-substituted or unsubstituted C1-6 alkoxy group on the
5 phenyl ring);

(Fda17) naphthyl C1-6 alkyl group;

(Fda18) fluorenyl C1-6 alkyl group;

(Fda19) pyridyl C1-6 alkyl group;

(Fda20) furyl C1-6 alkyl group (which may be
10 substituted on the furan ring by a halogen-substituted or unsubstituted phenyl group);

(Fda21) thienyl C1-6 alkyl group;

(Fda22) oxazolyl C1-6 alkyl group (which may be substituted on the oxazole ring by a halogen atom or
15 a halogen-substituted or unsubstituted phenyl group);

(Fda23) oxadiazolyl C1-6 alkyl group (which may be substituted on the oxadiazole ring by a halogen-substituted or unsubstituted phenyl group);

(Fda24) pyrazolyl C1-6 alkyl group (which may
20 be substituted on the pyrazole ring by a halogen-substituted or unsubstituted phenyl group);

(Fda25) benzothienyl C1-6 alkyl group (which may be substituted on the benzothiophene ring by at least one group selected from the group consisting of a
25 halogen atom and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fda26) thienyl C1-6 alkyl group that may be substituted on the thiophene ring by a halogen atom;

(Fda27) benzothiazolyl C1-6 alkyl group;

(Fda28) benzofuryl C1-6 alkyl group which may be substituted on the benzofuran ring by a halogen atom;

5 (Fda29) indoliny1 C1-6 alkyl group (which may be substituted on the indoline ring by at least one group selected from the group consisting of a C1-6 alkyl group and an oxo group);

(Fda30) benzoxazolyl C1-6 alkyl group (which
10 may be substituted on the benzoxazole ring by at least one group selected from a group consisting of a halogen atom, a C1-6 alkyl group, and an oxo group);

(Fda31) chromenyl C1-6 alkyl group;

(Fda32) 1,2,3,4-tetrahydroquinolyl C1-6 alkyl
15 group (which may be substituted on the quinoline ring by at least one group selected from the group consisting of a C1-6 alkyl group and an oxo group);

(Fda33) thiazolyl C1-6 alkyl group (which may be substituted on the thiazole ring by at least one
20 group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted phenyl group, and a C1-6 alkyl group); or

(Fda34) tetrazolyl C1-6 alkyl group (which may be substituted on the tetrazole ring by a group
25 selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group);

(Fda37) a group represented by the following

general formula (Fe):



wherein Z represents $-C=O$ or $-C=S$, and R^{32} and R^{33} each identically or differently represent any one

5 of:

(Fe1) hydrogen atom;

(Fe2) C1-6 alkyl group;

(Fe3) C3-8 cycloalkyl group;

(Fe4) phenyl C1-6 alkyl group (which may be
10 substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
group);

(Fe5) phenyl C2-6 alkenyl group (which may be
15 substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
20 group);

(Fe6) phenyl group (which may be substituted
on the phenyl ring by at least one group selected from
the group consisting of a halogen atom, a halogen-
substituted or unsubstituted C1-6 alkyl group, and a
25 halogen-substituted or unsubstituted C1-6 alkoxy
group); and

(Fe7) R^{32} and R^{33} may bind to each other
together with nitrogen atoms adjacent thereto through

other carbon atoms, so as to form a piperidine ring or 1,2,3,6-tetrahydropyridine ring, which may be substituted on the piperidine or 1,2,3,6-tetrahydropyridine ring by a phenyl group, which may be substituted at least one group selected from the group consisting of a halogen atom and a halogen-substituted or unsubstituted C1-6 alkyl group,

(Fd38) a group represented by the following general formula (Ff):



wherein R^{34} represents a hydrogen atom or C1-6 lower alkyl group, and R^{35} represents:

(Ff1) C3-8 cycloalkyl group;

(Ff2) C3-8 cycloalkenyl group;

(Ff3) a group represented by the following general formula (Ffa):



wherein each of R^{36} , R^{37} , and R^{38} represents: a hydrogen atom; C1-6 alkyl group; phenyl group (which may be substituted on the phenyl ring by at least one

to 5 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a C1-4 alkylenedioxy group, a C1-6 alkylsulfonyl group, a halogen-substituted or unsubstituted C1-6 alkylthio group, a nitro group, and an amino group which may have a C1-6 alkanoyl group as a substituent); benzofuryl group (which may be substituted on the benzofuran ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); biphenyl group; furyl group (which may be substituted on the furan ring by a phenyl group which may have a halogen atom as a substituent); or thiazolyl group (which may be substituted on the thiazole ring by at least one phenyl group which may have a halogen atom as a substituent),

(Ff4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a C3-8 cycloalkyl group; a hydroxyl group; a halogen-substituted or unsubstituted C1-8 alkoxy group; a C3-8 cycloalkoxy group; a C1-4 alkylenedioxy group; a cyano group; a nitro group; a phenyl C2-6 alkenyl group; a C2-6 alkanoyloxy group; an amino group which may have a C1-6 alkanoyl group as a substituent; a C1-6 alkyl-

sulfonylamino group; a phenyl C1-6 alkoxy group; a
 phenoxy group; an amino group which has at least one
 C1-6 alkyl group as a substituent; an amino group which
 has at least one phenyl group as a substituent; an
 5 amino C1-6 alkoxy group which may have at least one C1-
 6 alkyl group as a substituent; a C1-6 alkoxycarbonyl
 group; a C1-6 alkoxycarbonyl C1-6 alkoxy group; a C1-6
 alkylthio group; a pyrrolyl group; an imidazolyl group;
 a piperidyl group; a morpholino group; a pyrrolidinyl
 10 group; a thienyl group; a benzofuryl group; a
 piperazinyl group (which may be substituted on the
 piperazine ring by at least one group selected from the
 group consisting of a C1-6 alkyl group, a phenyl C1-6
 alkyl group, and a benzoyl group which may have at
 15 least one C1-6 alkyl group as a substituent); a
 quinolyl group which may be substituted on the
 quinoline ring by at least one group selected from the
 group consisting of a C1-6 alkoxy group and an oxo
 group; a piperidylcarbonyl group which may be substi-
 20 tuted on the piperidine ring by a carbostyryl group;
 and a triazolyl group);

(Ff5) naphthyl group which may be substituted
 on the naphthalene ring by at least one group selected
 from the group consisting of a halogen atom, a halogen-
 25 substituted or unsubstituted C1-6 alkoxy group, and an
 amino group which may have a C1-6 alkyl group as a
 substituent;

(Ff6) biphenylyl group (which may be substi-

tuted on the biphenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-9 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ff7) fluorenyl group; pyrenyl group;

(Ff8) benzofuryl group (which may be substituted on the benzofuran ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ff9) benzothienyl group (which may be substituted on the benzothiophene ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ff10) pyridyl group (which may be substituted on the pyridine ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group), a furyl group, and a thienyl group);

(Ff11) furyl group (which may be substituted on the furan ring by 1 to 3 groups selected from the group consisting of a C1-6 alkyl group, a nitro group, and a phenyl group (which may be substituted on the
5 phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a nitro group));

10 (Ff12) benzothiazole group (which may have, on the benzothiazole ring, at least one phenyl group that may have, as a substituent, a C1-6 alkoxy group on the phenyl ring);

(Ff13) thienyl group (which may have, on the
15 thiophene ring, at least one group selected from the group consisting of a halogen atom, a nitro group, a C1-6 alkyl group, a pyrazolyl group which may be substituted on the pyrazole ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group
20 as a substituent, and a thienyl group which may have a halogen atom on the thiophene ring);

(Ff14) indolyl group (which may be substituted on the indole ring by at least one group selected from the group consisting of a phenylsulfonyl group
25 which may have a C1-6 alkyl group as a substituent, a phenyl C1-6 alkyl group, a C1-6 alkoxycarbonyl group, and a phenyl group);

(Ff15) pyrrolyl group (which may be substi-

tuted on the pyrrole ring by at least one group selected from the group consisting of a phenyl group which may be substituted by at least one halogen-substituted or unsubstituted C1-6 alkyl group, and a
5 C1-6 alkyl group);

(Ff16) coumaryl group;

(Ff17) benzimidazolyl group (which may be substituted on the benzimidazole ring by at least one thienyl group as a substituent);

10 (Ff18) oxazolyl group (which may be substituted on the oxazole ring by at least one phenyl group that may have a halogen atom as a substituent);

(Ff19) thiazolyl group (which may be substituted on the thiazole ring by at least one phenyl
15 group, wherein at least one group selected from the group consisting of a halogen atom, a nitro group, and a phenyl group);

(Ff20) quinolyl group;

(Ff21) 3,4-dihydrocarbostyryl group (which
20 may be substituted on the 3,4-dihydrocarbostyryl ring by at least one group selected from the group consisting of a C1-6 alkoxy group, a C1-6 alkyl group, and a phenyl C1-6 alkoxy group), or carbostyryl group (which may be substituted on the carbostyryl ring by at least
25 one group selected from the group consisting of a C1-6 alkoxy group, a C1-6 alkyl group, and a phenyl C1-6 alkoxy group);

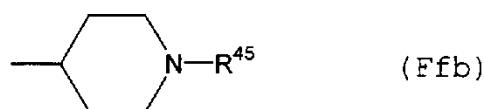
(Ff22) imidazo[2,1-b]thiazolyl group;

(Ff23) imidazo[2,1-a]pyridyl group;

(Ff24) chromanyl group (which may be substituted on the chroman ring by at least one C1-6 alkyl group); or

5 (Ff25) 2,3-dihydrobenzofuryl group, or

(Fd39) a group represented by the following general formula (Ffb):



wherein R⁴⁵ represents: a C1-6 alkoxy carbonyl group; phenyl group (which may be substituted on the

10 phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); amino substituted C1-6 alkyl group which may

15 have, on the amino group, a group selected from a group consisting of a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a

20 halogen-substituted or unsubstituted C1-6 alkoxy group) and a C1-6 alkyl group as a substituent; benzoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a

halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by
5 at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkoxy-carbonyl group (which may be substituted on the phenyl
10 ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or phenyl C2-6 alkenyl group (which may be substituted on
15 the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

20 (F12-3) morpholino group;
(F12-4) imidazolyl group;
(F12-5) 1,4-dioxazaspiro[4,5]decyl group
(which may be substituted on the 1,4-dioxazaspiro-
[4,5]decane ring by at least one oxo group as a
25 substituent);

(F12-6) homopiperaziny1 group (which may be substituted on the homopiperazine ring by at least one group selected from the group consisting of a C1-6

alkoxycarbonyl group, a phenyl C1-6 alkoxycarbonyl group, and a phenyl-substituted or unsubstituted phenyl group as a substituent);

(F12-7) piperazinyl group (which may be substituted on the piperazine ring by at least one group selected from the group consisting of an oxo group, a C1-6 alkyl group, and a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group));

(F12-8) piperidyl group (which may be substituted on the piperidine ring by at least one oxo group as a substituent);

(F12-9) pyrrolidinyl group (which may be substituted on the pyrrolidine ring by at least one phenoxy C1-6 alkyl group that may have a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent);

(F12-10) isoindolinyl group, and
F13) moreover, R^{19} and R^{20} may bind to each other together with nitrogen atoms adjacent thereto directly or through hetero atoms, so as to form a cyclic imide or amide shown in any one of (F13-1) to (F13-11) indicated below:

(F13-1) succinimide group;

(F13-2) oxazolidinyl group (which may be substituted on the oxazolidine ring by at least one oxo group as a substituent);

(F13-3) benzo-1,3-oxazolidinyl group (which may be substituted on the benzo-1,3-oxazolidine ring by at least one group selected from the group consisting of an oxo group, a halogen atom, and a phenyl group as a substituent);

(F13-4) imidazolidinyl group (which may be substituted on the imidazolidine ring by at least one group selected from the group consisting of an oxo group, a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom and a C1-6 alkoxy group), and a phenyl group);

(F13-5) benzimidazolidinyl group (which may be substituted on the benzimidazolidine ring by at least one group selected from the group consisting of: an oxo group; a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; an amino group which may have a C1-6 alkyl group as a substituent; a C1-6 alkoxycarbonyl group; and a piperidyl group (which may be substituted on the piperidine ring by at least one group selected from the group consisting of a C1-6 alkyl group, a phenyl group wherein 1 to 3 halogen atoms may be substituted on the phenyl ring, a C1-6 alkoxycarbonyl group, and a phenyl C1-6 alkoxycarbonyl group as a substituent));

(F13-6) phthalimide group;

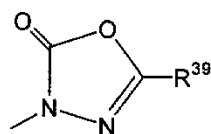
(F13-7) indolinyl group (which may have on the indoline ring at least one group selected from the

group consisting of a C1-6 alkyl group, a halogen atom, and an oxo group as a substituent);

(F13-8) 2,3-dihydrobenzothiazolyl group
(which may have at least one oxo group on the 2,3-
5 dihydrobenzothiazole ring);

(F13-9) 1H-2,4-benzoxazinyl group (which may be substituted on the 1H-2,4-benzoxazine ring by at least one oxo group as a substituent);

(F13-10) a group represented by the following
10 general formula (Fga):

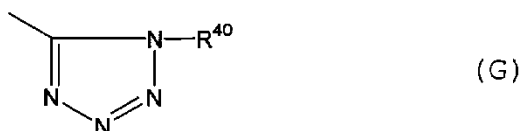


(Fga)

wherein R³⁹ represents: a hydrogen atom; a phenyl C1-6 alkyl group which may have, as a substituent, a halogen atom on the phenyl ring; phenoxy C1-6 alkyl group which may have, as a substituent, a halogen atom on the phenyl ring; phenyl C2-6 alkenyl group
15 which may have, as a substituent, a halogen atom on the phenyl ring; phenyl group which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-
20 substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a phenyl group as a substituent; pyridyl group; or pyrazinyl group, and

(F13-11) 1,3-thiazolidinyl group (which may be substituted on the 1,3-thiazolidine ring by at least one group selected from a group consisting of an oxo group and a phenyl C1-6 alkylidene group which may have
 5 a halogen-substituted or unsubstituted C1-6 alkyl group on the phenyl ring as a substituent),

a group represented by the following general formula (G):



wherein R^{40} represents a C1-6 alkyl group, or
 10 halogen-substituted or unsubstituted phenyl group,

a spiro ring group represented by the following general formula (H):



wherein R^{41} represents:

- H1) hydrogen atom;
- 15 H2) C1-6 alkyl group;
- H3) phenyl C1-6 alkyl group that may have a phenyl group as a substituent on the phenyl ring;
- H4) phenyl group (which may be substituted on

the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; an amino group (which may be substituted on the amino group by at least one group selected from the group consisting of a C1-6 alkyl group and a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group)); an phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); and piperidyl group (which may be substituted on the piperidine ring by at least one group selected from the group consisting of phenoxy groups (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent));

H5) piperazinyl C1-6 alkyl group (which may be substituted on the piperazine ring by at least one group selected from the group consisting of a C1-6

alkoxycarbonyl group and a phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a phenyl group);

H6) piperazinylcarbonyl C1-6 alkyl group (which may be substituted on the piperazine ring by at least one group selected from the group consisting of: a C1-6 alkoxycarbonyl group; a phenyl C1-6 alkoxy-carbonyl group which may have, as a substituent, a halogen-substituted or unsubstituted C1-6 alkyl group on the phenyl ring; and a phenyl C1-6 alkyl group which may have, as a substituent, at least one group selected from the group consisting of a halogen-substituted or unsubstituted C1-6 alkyl group and a phenyl group on the phenyl ring);

H7) phenylcarbonyl C1-6 alkyl group which may have at least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent on the phenyl ring;

H8) benzoxazolyl C1-6 alkyl group (which may have at least one oxo group as a substituent on the benzoxazole ring);

H9) benzothiazolyl group;

H10) tetrazolyl group (which may have at least one phenyl group as a substituent on the tetrazole ring);

H11) C1-6 alkylsulfonyl group;

H12) phenylsulfonyl group which may have at least one C1-6 alkyl group as a substituent on the phenyl ring;

5 H13) phenylthiocarbamoyl group which may be substituted on the phenyl ring by at least one halogen atom as a substituent;

H14) C1-8 alkoxy carbonyl group;

H15) phenyl C1-6 alkoxy carbonyl group (which
10 may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a C1-6 alkoxy carbonyl group, an amino group which may have a C1-6 alkoxy carbonyl group as a substituent, a halogen-substituted or unsubstituted C1-6 alkyl
15 group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a nitro group, and a C1-6 alkylthio group);

H16) benzhydryloxy carbonyl group (which may be substituted on the phenyl ring by at least one
20 halogen atom);

H17) C1-6 alkoxy carbonyl group which may have a phenyl-substituted or unsubstituted phenyl group;

H18) naphthyl C1-6 alkoxy carbonyl group;

H19) pyridyl C1-6 alkoxy carbonyl group;

25 H20) C1-6 alkoxy-substituted C1-6 alkoxy-carbonyl group;

H21) piperazinyl C1-6 alkoxy carbonyl group (which may be substituted on the piperazine ring by at

least one group selected from the group consisting of a C1-6 alkoxy carbonyl group and a phenyl C1-6 alkyl group (which may have at least one halogen atom as a substituent on the phenyl ring) as a substituent);

5 H22) phenoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a C1-6 alkyl group and a C1-6 alkoxy group);

 H23) C1-6 alkanoyl group;

10 H24) benzoyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group);

 H25) phenyl C1-6 alkanoyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group);

 H26) phenoxy C1-6 alkanoyl group (wherein 1 to 3 halogen atoms may be substituted on the phenyl ring);

 H27) piperazinyl C2-6 alkanoyl group (which
20 may be substituted on the piperazine ring by at least one group selected from a group consisting of: a C1-6 alkanoyl group; a phenyl C1-6 alkyl group which may have, as a substituent, at least one group selected from the group consisting of a phenyl group, a halogen
25 atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group, on the phenyl ring; a phenyl C1-6 alkoxy carbonyl group which may have, as a substituent,

at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group, on the phenyl ring; a phenylcarbamoyl C1-6 alkyl group which may have, as a substituent, at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group, on the phenyl ring; a phenylcarbamoyl group which may have, as a substituent, at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group, on the phenyl ring; and a benzoxazolyl group);

H28) phenylcarbamoyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, an amino group which may have a C1-6 alkyl group as a substituent, a carboxyl group, a C1-6 alkoxycarbonyl group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a piperazinyl group which may have a C1-6 alkyl group as a substituent on the piperazine ring, and a morpholino group);

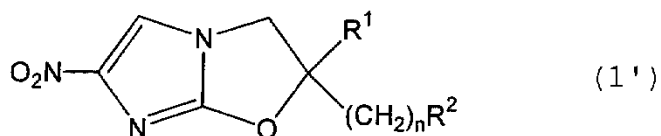
H29) phenyl C1-6 alkylcarbamoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen-

substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group); or

H30) piperazinylcarbonyl group (which may be substituted on the piperazine ring by at least one group selected from the group consisting of a C1-6 alkoxy carbonyl group, a phenyl C1-6 alkoxy carbonyl group which may have at least one halogen-substituted or unsubstituted C1-6 alkyl group on the phenyl ring, and a phenyl C1-6 alkyl group which may have a halogen-substituted or unsubstituted C1-6 alkyl group on the phenyl ring),

provided that, in the above general formula (1), when R^1 represents a hydrogen atom and R^2 represents a group represented by the above general formula (A), then R^3 cannot be an isopropyl group; when R^1 represents a hydrogen atom, R^2 represents a group represented by the above general formula (E), and m is 0, then R^{11} cannot be a hydrogen atom; and further, when R^1 represents a hydrogen atom and R^2 represents a group represented by the above general formula (F), then it is not possible that R^{19} represents a hydrogen atom and R^{20} represents a tert-butoxycarbonyl group.

Further, the present invention provides a 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound represented by the following general formula (1'), optically active form thereof, or pharmaceutically acceptable salt thereof:



wherein R^1 represents a hydrogen atom or C1-6 alkyl group, n represents an integer of 0 to 6, and R^2 represents a group represented by general formula (A'), (B'), (C'), (D'), (E'), (F') or (G') indicated below,
 5 and further, R^1 and $-(CH_2)_nR^2$ may bind to each other together with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H') indicated below.

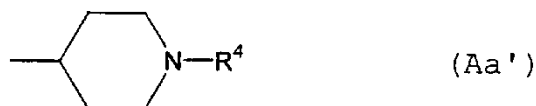
General formulas (A') - (H') will be
 10 described as follows:
 a group represented by the following general formula (A'):



wherein R^3 represents:

- 15
- A1) hydrogen atom;
 - A2) C1-6 alkyl group;
 - A3) C1-6 alkoxy-C1-6 alkyl group
 - A4) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a benzyloxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);
- 20

- A5) biphenyl C1-6 alkyl group;
 A6) cinnamyl group;
 A7) methanesulfonyl group;
 A8) benzenesulfonyl group that may be substituted by a methyl group;
 A9) C1-6 alkanoyl group;
 A10) a group represented by the following general formula (Aa'):

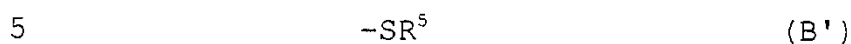


wherein R^4 represents a C1-6 alkoxy carbonyl group, phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a benzyloxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group), or phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a benzyloxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

- A11) biphenyl C1-6 alkoxy carbonyl group;
 A12) 2-(2-oxo-3-benzoxazolyl)ethyl group;
 A13) 2-benzoxazolyl group; or

A14) 2-phenyl-5-methyl-4-oxazolylmethyl
group,

a group represented by the following general
formula (B'):



wherein R^5 represents a 5-(1H)-tetrazolyl
group (wherein position 1 may be substituted by a C1-6
alkyl group, or halogen-substituted or unsubstituted
phenyl group), or 2-benzoxazolyl group,

10 a group represented by the following general
formula (C'):



wherein R^6 represents a C1-6 alkyl group,
a carbamoyloxy group represented by the
15 following general formula (D'):



wherein R^7 and R^8 each identically or
differently represent any one of:

- 20 D1) hydrogen atom;
- D2) C1-8 alkyl group;
- D3) halogen-substituted C1-6 alkyl group;
- D4) C1-6 alkoxycarbonyl-C1-6 alkyl group;
- D5) C5-8 cycloalkyl group;
- D6) phenyl C1-6 alkyl group (which may be
- 25 substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy

group);

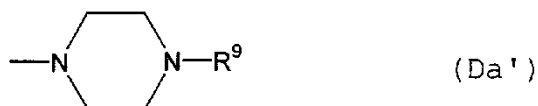
D7) phenyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a C1-6 alkanoyl group, a carboxyl group, a C1-6 alkoxycarbonyl group, a benzyloxycarbonyl group, a carbamoyl group, a C1-6 alkylcarbamoyl group, an aminosulfonyl group, and a morpholino group);

D8) 1-naphthyl group;

D9) 4-pyridyl group; and

D10) R^7 and R^8 may bind to each other together with nitrogen atoms adjacent thereto directly or through other hetero atoms or carbon atoms, so as to form a saturated heterocyclic group shown in any one of (D10-1) to (D10-3) indicated below, or benzene condensed heterocyclic group shown in any one of (D10-4) to (D10-7) indicated below:

(D10-1) a piperazinyl group represented by the following general formula (Da'):



wherein R^9 represents:

(Da1) hydrogen atom;

(Da2) C1-6 alkyl group;

(Da3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
5 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Da4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from
10 the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group);

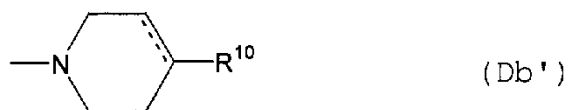
(Da5) C1-6 alkoxy carbonyl group;

15 (Da6) phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6
20 alkoxy group);

(Da7) 4-trifluoromethylcinnamyloxycarbonyl group; or

(Da8) 4-trifluoromethylbenzylideneamino group,

25 (D10-2) a group represented by the following general formula (Db'):



wherein the dotted line represents that the bond may be a double bond, and R¹⁰ represents:

(Db1) hydrogen atom;

(Db2) phenyl group (which may be substituted
 5 on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

10 (Db3) phenoxy group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group); or

(Db4) phenylamino group (which may be substituted on the phenyl ring by at least one halogen-
 15 substituted or unsubstituted C1-6 alkyl group), and

(D10-3) a morpholino group;

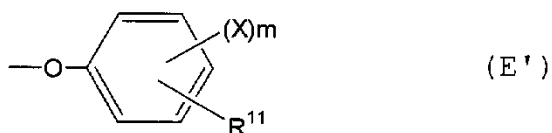
(D10-4) halogen-substituted or unsubstituted 1-indolinyl group;

(D10-5) halogen-substituted or unsubstituted
 20 2-isoindolinyl group;

(D10-6) halogen-substituted or unsubstituted 1,2,3,4-tetrahydro-1-quinolinyl group; and

(D10-7) halogen-substituted or unsubstituted 1,2,3,4-tetrahydro-2-isoquinolinyl group,

a phenoxy group represented by the following general formula (E'):



wherein X represents a halogen atom, m represents an integer of 0 to 3, and R¹¹ represents:

5

E1) hydrogen atom;

E2) halogen-substituted or unsubstituted C1-6 alkyl group;

E3) halogen-substituted or unsubstituted C1-6 alkoxy group;

10

E4) morpholino group;

E5) thiomorpholino group;

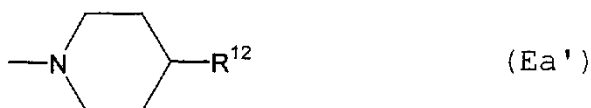
E6) S-oxide thiomorpholino group;

E7) 1-imidazolyl group;

E8) 1-triazolyl group;

15

E9) piperidinyl group represented by the following general formula (Ea'):



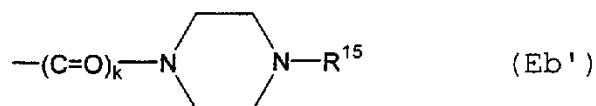
wherein R¹² represents:

(Ea1) hydrogen atom;

(Ea2) C1-6 alkoxy carbonyl group; or

(Ea3) phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

E10) a group represented by the following formula (Eb'):



wherein k represents an integer of 0 or 1,
10 and R^{15} represents:

(Eb1) hydrogen atom;

(Eb2) C1-6 alkyl group;

(Eb3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eb4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6

alkoxy group);

(Eb5) C1-6 alkanoyl group;

(Eb6) phenyl C2-6 alkanoyl group (which may be substituted on the phenyl ring by at least one group
5 selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eb7) benzoyl group (which may be substituted
10 on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

15 (Eb8) C1-8 alkoxy carbonyl group (which may be substituted on the alkoxy group by at least one group selected from the group consisting of a halogen atom, a di(C1-6 alkyl)amino group, and a C1-6 alkoxy group);

(Eb9) phenyl C1-6 alkoxy carbonyl group (which
20 may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

25 (Eb10) phenyl C3-6 alkenyloxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted

C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

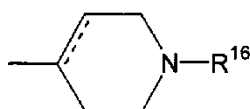
(Eb11) phenoxy carbonyl group (which may be substituted on the phenyl ring by at least one group
5 selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eb12) phenyl C1-6 alkyl carbamoyl group
10 (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Eb13) phenyl carbamoyl group (which may be substituted on the phenyl ring by at least one group
15 selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or
20

(Eb14) 2-benzofuranylmethyloxycarbonyl group which may be substituted by a halogen atom on the benzene ring,

E11) a group represented by the following
25 general formula (Ec'):



(Ec')

wherein the dotted line represents that the bond may be a double bond, and R^{16} represents:

(Ec1) hydrogen atom;

(Ec2) C1-6 alkyl group;

5 (Ec3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Ec4) C1-8 alkoxy carbonyl group; or

(Ec5) phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

a group represented by the following general formula (F'):

20 $-NR^{19}R^{20}$ (F')

wherein R^{19} and R^{20} each identically or differently represent any one of:

F1) hydrogen atom;

F2) C1-6 alkyl group;

25 F3) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group

selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a dimethylamino group);

5 F4) phenoxy C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy
10 group);

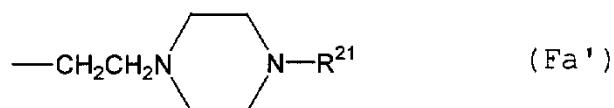
F5) N-methylamino C1-6 alkyl group (wherein, the position N may be substituted by a C1-6 alkoxy-carbonyl group, or phenyl group that may be substituted on the phenyl ring by at least one group
15 selected from the group consisting of a halogen atom and a halogen-substituted or unsubstituted C1-6 alkyl group);

F6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the
20 group consisting of a halogen atom and a C1-6 alkoxy-carbonyl group);

F7) C1-6 alkoxy-carbonyl group;

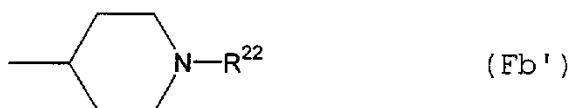
F8) phenyl C1-6 alkoxy-carbonyl group (which may be substituted on the phenyl ring by at least one
25 group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

F9) 4-substituted-1-piperazinylethyl group
represented by the following general formula (Fa'):



wherein R²¹ represents a C1-6 alkoxy carbonyl group; phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom and a halogen-substituted or unsubstituted C1-6 alkyl group); or phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

F10) 1-substituted-4-piperidinyl group
represented by the following formula (Fb'):

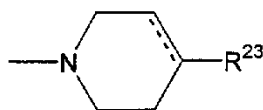


wherein R^{22} represents a C1-6 alkoxy carbonyl group; phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
 5 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a
 10 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

F11) 2-[4-(4-trifluoromethylphenoxy)-1-piperidinyl]ethyl group;

15 F12) in addition, R^{19} and R^{20} may bind to each other together with nitrogen atoms adjacent thereto directly or through other hetero atoms or carbon atoms, so as to form a heterocyclic ring shown in any one of (F12-1) to (F12-10) indicated below:

20 (F12-1) a group represented by the following formula (Fc'):



(Fc')

wherein the dotted line represents that the bond may be a double bond, and R^{23} represents:

(Fc1) C1-6 alkyl group;

(Fc2) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc3) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc4) phenyl C1-6 alkoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc5) 4-biphenyl C1-6 alkoxy group;

(Fc6) phenyl C3-6 alkenyloxy group which may be substituted on the phenyl ring by a halogen atom;

(Fc7) phenoxy group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl

group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc8) benzoyl group (which may be substituted on the phenyl ring by at least one group selected from
5 the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc9) C1-6 alkoxycarbonyl group;

10 (Fc10) phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc11) phenyl C1-6 alkylcarbamoyl group
15 wherein a halogen atom may be substituted on the phenyl ring;

(Fc12) phenylcarbamoyl group wherein a halogen atom may be substituted on the phenyl ring;

(Fc13) phenylthio group (which may be
20 substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fc14) phenyl sulfoxide group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkoxy group);

25 (Fc15) pyridylmethoxy group; or

(Fc16) a group represented by the following general formula (Fca'):



wherein each of R^{24} and R^{25} represents:

(Fca1) hydrogen atom;

(Fca2) C1-6 alkyl group;

(Fca3) phenyl C1-6 alkyl group (which may be
5 substituted on the phenyl ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
group);

10 (Fca4) phenyl group (which may be substituted
on the phenyl ring by at least one group selected from
the group consisting of a halogen atom, a cyano group,
a halogen-substituted or unsubstituted C1-6 alkyl
group, and a halogen-substituted or unsubstituted C1-6
15 alkoxy group);

(Fca5) C1-6 alkanoyl group;

(Fca6) phenylacetyl group which may be
substituted on the phenyl ring by a halogen atom;

(Fca7) benzoyl group (which may be substi-
20 tuted on the phenyl ring by at least one group selected
from the group consisting of a halogen atom, a halogen-
substituted or unsubstituted C1-6 alkyl group, and a
halogen-substituted or unsubstituted C1-6 alkoxy
group);

25 (Fca8) C1-6 alkoxy carbonyl group;

(Fca9) phenyl C1-6 alkoxy carbonyl group
(which may be substituted on the phenyl ring by at
least one group selected from the group consisting of a

halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fca10) phenylcarbamoyl group (which may be substituted by at least one halogen-substituted or unsubstituted C1-6 alkoxy group on the phenyl ring);

(Fca11) 1-(4-trifluoromethylphenyl)-4-piperidinyloxycarbonyl group; or

(Fca12) R^{24} and R^{25} may form a piperidine ring through nitrogen adjacent thereto,

(Fl2-2) 4-substituted-1-piperazinyl group represented by the following general formula (Fd'):



wherein R^{26} represents:

- (Fd1) hydrogen atom;
- (Fd2) C1-6 alkyl group;
- (Fd3) C5-8 cycloalkyl group;
- (Fd4) C5-8 cycloalkyl-C1-6 alkyl group;
- (Fd5) C1-6 alkoxycarbonyl-C1-6 alkyl group;
- (Fd6) cinnamyl group;
- (Fd7) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom; a cyano group; a halogen-substituted or unsubstituted C1-

6 alkyl group; a cyclohexyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; a dimethylamino group; a C1-6 alkoxy-carbonyl group; a phenoxy group; a phenyl C1-6 alkyl group; a styryl
5 group; a 3-pyridyl group; a 1-imidazolyl group; and a 1-piperidino group);

(Fd8) biphenylmethyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
10 halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a dimethylamino group);

(Fd9) 1- or 2-naphthylmethyl group;

(Fd10) phenyl group (which may be substituted
15 on the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a cyano group; a dimethylamino group; a halogen-substituted or unsubstituted C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; a C1-6 alkoxy-
20 carbonyl group, and a carboxyl group);

(Fd11) biphenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of halogen-substituted or unsubstituted C1-6 alkyl groups);

25 (Fd12) amino group, amino group substituted by a C1-6 alkoxy-carbonyl group, benzylamino group, trifluoromethylbenzylamino group, or phenylamino group (which may be substituted on the phenyl ring by at

least one group selected from the group consisting of a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen atom);

(Fd13) 4-chlorobenzoylmethyl group;

- 5 (Fd14) phenylcarbamoylmethyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group);

- (Fd15) 4- or 5-thiazolylmethyl group (which may be substituted on the thiazole ring by at least one
10 group selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group);

- (Fd16) 4-oxazolylmethyl group (which may be substituted on the oxazole ring by at least one group
15 selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group);

(Fd17) 2-indolylmethyl group;

- (Fd18) 2-furylmethyl group (which may be
20 substituted on the furan ring by at least one halogen-substituted or unsubstituted phenyl group);

(Fd19) 4- or 5-imidazolylmethyl group (which may be substituted on the imidazole ring by a phenyl group);

- 25 (Fd20) 2-quinolylmethyl group;

(Fd21) 5-(1H)-tetrazolyl group (wherein the position-1 of the tetrazole ring may be substituted by a phenyl group);

(Fd22) 2- or 4-pyrimidyl group that may be substituted by a phenyl group;

(Fd23) 2-, 3-, or 4-pyridyl group;

(Fd24) 2-benzoxazolyl group;

5 (Fd25) 2-benzothiazolyl group;

(Fd26) 2-oxo-3-benzoxazolyl-C1-6 alkyl group;

(Fd27) phenoxy C2-6 alkanoyl group which may be substituted on the phenyl ring by a halogen atom;

(Fd28) phenylthio C2-6 alkanoyl group that
10 may be substituted on the phenyl ring by a halogen atom;

(Fd29) phenyl C2-6 alkanoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a
15 halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fd30) benzoyl group (which may be substituted on the phenyl ring by at least one group selected
20 from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a C1-6 alkylamino group);

(Fd31) 4-biphenyllylcarbonyl group;

25 (Fd32) 2-, 3-, or 4-pyridylcarbonyl group;

(Fd33) cinnamoyl group wherein a halogen atom may be substituted on the phenyl ring;

(Fd34) phenyl C1-6 alkylsulfonyl group which

may be substituted by a halogen atom on the phenyl ring;

(Fd35) benzenesulfonyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a chlorine atom and a methyl group);

(Fd36) a group represented by the following general formula (Fda'):



10 wherein R^{27} represents:

(Fda1) halogen-substituted or unsubstituted C1-8 alkyl group;

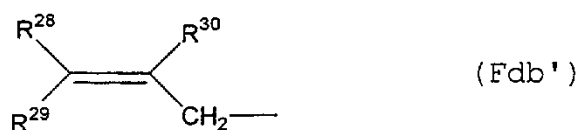
(Fda2) C5-8 cycloalkyl group;

(Fda3) C5-8 cycloalkyl-C1-6 alkyl group;

15 (Fda4) C1-6 alkoxy-C1-6 alkyl group;

(Fda5) C1-6 alkylamino-C1-6 alkyl group;

(Fda6) a group represented by the following general formula (Fdb'):



20 wherein R^{28} , R^{29} , or R^{30} represent a hydrogen atom, a C1-6 alkyl group, or a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group,

and a halogen-substituted or unsubstituted C1-6 alkoxy group), respectively;

(Fda7) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 5 groups

5 selected from the group consisting of a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; a halogen-substituted or unsubstituted C1-6 alkylthio group; a phenyl C1-6 alkoxy group; a hydroxy
10 group; a methylsulfinyl group; a methanesulfonyl group; methanesulfonyloxy group; a cyano group; an acetyl group; a benzoyl group; an α,α -dimethoxybenzyl group, an amino group, a nitro group; a carbamoyl group; an acetylamino group; a C1-6 alkoxycarbonyl group; a C1-6
15 alkylaminocarbonyl group; a C1-6 alkoxycarbonylamino group; a tri-C1-6-alkylsiloxo group; a pyrrolyl group; a tetrahydropyranyloxy group; and an 1-imidazolyl group);

(Fda8) biphenyl C1-6 alkyl group;

20 (Fda9) benzhydryl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom, a trifluoromethyl group, and a trifluoromethoxy group);

(Fda10) phenoxy C1-6 alkyl group (which may
25 be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy

group);

(Fda11) 3-(4-trifluoromethyl)phenyl-2-propynyl group;

(Fda12) 2-, 3-, or 4-pyridylmethyl group;

5 (Fda13) a group represented by the following general formula (Fdc'):



wherein R^{31} represents a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a cyano group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); or benzoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group),

(Fda14) 1-piperidinoethyl group (wherein the

position-4 of the piperidine ring may be substituted by a 4-trifluoromethylphenoxy group);

(Fda15) N-methyl-N-(4-trifluoromethoxy)-phenylaminoethyl group;

5 (Fda16) 4-(4-trifluoromethoxyphenyl)-1,2,3,6-tetrahydro-1-pyridinylethyl group;

(Fda17) 1- or 2-naphthylmethyl group;

(Fda18) 1-, 2-, 3-, 4-, or 9-fluorenylmethyl group;

10 (Fda19) 2-, 3-, or 4-pyridylmethyl group;

(Fda20) 2-furylmethyl group (wherein the position-4 of the furan ring may be substituted by a halogen-substituted or unsubstituted phenyl group);

(Fda21) 3-thienylmethyl group;

15 (Fda22) 4-oxazolylmethyl group (wherein the position-2 of the oxazoline ring may be substituted by a halogen atom or chlorophenyl group);

(Fda23) 4-thiazolylmethyl group which may be substituted by a halogen atom;

20 (Fda24) 5-oxadiazolylmethyl group wherein the position-2 of the oxadiazoline ring may be substituted by a halogen-substituted or unsubstituted phenyl group;

(Fda25) 3-pyrazolylmethyl group wherein the position-1 of the pyrazoline ring may be substituted by
25 a halogen-substituted or unsubstituted phenyl group;

(Fda26) 2- or 3-benzothiophenylmethyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a

halogen atom and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fda27) benzoxazol-2-ylmethyl group which may be substituted by a halogen atom on the benzene ring;

5 (Fda28) 2-thienylmethyl group which may be substituted by a halogen atom;

(Fda29) 2-benzothiazolylmethyl group;

(Fda30) 2-(5-chloro)benzofuranylmethyl group;

(Fda31) 3,3-dimethyl-2-oxo-5-indolinylmethyl
10 group (wherein the position-1 of the indoline ring may be substituted by a C1-6 alkyl group);

(Fda32) 2-oxo-6-benzoxazolylmethyl group (wherein the position-1 of the benzoxazoline ring may be substituted by a C1-6 alkyl group);

15 (Fda33) 7-chromenylmethyl group;

(Fda34) 2-oxo-1,2,3,4-tetrahydro-6-quinolylmethyl group (wherein the position-1 of the quinoline ring may be substituted by a C1-6 alkyl group);

(Fda35) 5-thiazolylmethyl group (which may be
20 substituted on the thiazole ring by at least one group selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group); or

(Fda36) 5-(1H)-tetrazolyl C1-6 alkyl group
25 (wherein the position-1 of the tetrazole ring may be substituted by a group selected from the group consisting of a halogen-substituted or unsubstituted phenyl group and a C1-6 alkyl group),

(Fd37) a group represented by the following general formula (Fe'):



wherein Z represents $-C=O$ or $-C=S$, and R^{32} and R^{33} each identically or differently represent any one of:

(Fe1) hydrogen atom;

(Fe2) C1-6 alkyl group;

(Fe3) C5-8 cycloalkyl group;

10 (Fe4) phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fe5) phenyl C2-6 alkenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

(Fe6) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); and

(Fe7) R^{32} and R^{33} may bind to each other

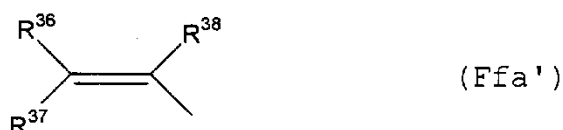
together with nitrogen atoms adjacent thereto through other carbon atoms, so as to form a piperidine ring or 1,2,3,6-tetrahydropyridine ring, wherein the position-4 of the piperidine ring or 1,2,3,6-tetrahydropyridine
 5 ring may be substituted by a phenyl group, and the phenyl group may be substituted by at least one group selected from the group consisting of a halogen atom and a halogen-substituted or unsubstituted C1-6 alkyl group, or

10 (Fd38) a group represented by the following general formula (Ff'):



wherein R^{34} represents a hydrogen atom or C1-6 lower alkyl group, and R^{35} represents:

- (Ff1) C5-8 cycloalkyl group;
 15 (Ff2) C5-8 cycloalkenyl group;
 (Ff3) a group represented by the following general formula (Ffa'):



wherein each of R^{36} , R^{37} , and R^{38} represents: a

hydrogen atom; C1-6 alkyl group; phenyl group (which may be substituted on the phenyl ring by at least one 1 to 5 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a methylenedioxy group, a methanesulfonyl group, a halogen-substituted or unsubstituted C1-6 alkylthio group, a nitro group, and an acetylamino group); 2-benzofuranyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group); 4-biphenyl group; 2-furyl group which may be substituted by a 4-chlorophenyl group; or 2-(4-chlorophenyl)-4-thiazolyl group,

(Ff4) phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of: a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; a C5-8 cycloalkyl group; a hydroxy group; a halogen-substituted or unsubstituted C1-8 alkoxy group; a C5-8 cycloalkoxy group; a methylenedioxy group; an ethylenedioxy group; a cyano group; a nitro group; a cinnamyl group; a C1-6 alkanoyloxy group; a C1-6 alkanoylamino group; a methanesulfonylamino group; a phenyl C1-6 alkoxy group; a phenoxy group; a di(C1-6 alkyl)amino group; a diphenylamino group; a di(C1-6

- alkyl)amino C1-6 alkoxy group; a methoxycarbonyl group;
a C1-6 alkoxycarbonyl C1-6 alkoxy group; a C1-6
alkylthio group; a pyrrolyl group; a 1-imidazolyl
group; a piperidino group; a morpholino group;
- 5 pyrrolidinyl group; a 2-thienyl group; a 2-benzofuranyl
group; a 4-piperazinyl group wherein the position-1 may
be substituted by a group selected from the group
consisting of a C1-6 alkyl group, a phenyl C1-6 alkyl
group, a benzoyl group, and a C1-6 alkyl group
- 10 substituted benzoyl group; a 2-oxo-3-quinolyl group
which may be substituted on the benzene ring by a C1-6
alkoxy group; a 4-(carbostyryl-1-yl)piperidinyl-1-
carbonyl group; and a triazolyl group);
- (Ff5) 1- or 2-naphthyl group substituted by a
- 15 halogen atom, halogen-substituted or unsubstituted C1-6
alkoxy group, or dimethylamino group;
- (Ff6) 3- or 4-biphenyl group (which may be
substituted on the biphenyl ring by at least one group
selected from the group consisting of a halogen atom, a
- 20 halogen-substituted or unsubstituted C1-9 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy
group);
- (Ff7) 2-fluorenyl group; 3-pyrenyl group;
- (Ff8) 2-benzofuranyl group (which may be
- 25 substituted on the benzene ring by at least one group
selected from the group consisting of a halogen atom, a
halogen-substituted or unsubstituted C1-6 alkyl group,
and a halogen-substituted or unsubstituted C1-6 alkoxy

group);

(Ff9) 2- or 3-benzothiophenyl group (which may be substituted on the benzene ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group; or the position-3 or -2 of the thiophene ring may be substituted by a C1-6 alkyl group);

(Ff10) 2-, 3-, or 4-pyridyl group (which may be substituted on the pyridyl group by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a phenyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group), a 2-furyl group, a 3-furyl group, a 2-thienyl group, and a 3-thienyl group);

(Ff11) 2- or 3-furyl group (which may be substituted on the furan ring by 1 to 3 groups selected from the group consisting of a C1-6 alkyl group, a nitro group, and a phenyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, and a nitro group));

(Ff12) 2-(2-methoxyphenyl)benzothiazol-5-yl group;

(Ff13) 2-thienyl group; 3-thienyl group; 4-bromo-2-thienyl group; 5-chloro-2-thienyl group; 5-ethyl-2-thienyl group; 3-methyl-2-thienyl group; 5-nitro-2-thienyl group; 5-(1-methyl-3-trifluoromethyl-5-pyrazolyl)-2-thienyl group; 5-(1-methyl-5-trifluoromethyl-3-pyrazolyl)-2-thienyl group; 2,2'-bithien-5-yl group; 5'-bromo-2,2'-bithien-5-yl group;

10 (Ff14) 1-(4-methylbenzenesulfonyl)indol-3-yl group; 1-benzylindol-3-yl group; 6-methoxycarbonylindol-3-yl group; 2-phenylindol-3-yl group;

(Ff15) 1-(3-trifluoromethyl)phenyl-2,5-dimethyl-3-pyrrolyl group;

15 (Ff16) 6-coumaryl group;

(Ff17) 2-(2-thienyl)-5-benzimidazolyl group; 6-benzimidazolyl group;

(Ff18) 2-(4-chlorophenyl)-4-oxazolyl group;

(Ff19) 2-phenyl-4-thiazolyl group; 2-(4-chlorophenyl)-4-thiazolyl group; 2-(4-nitrophenyl)-4-thiazolyl group; 2-(4-biphenyl)-4-thiazolyl group;

(Ff20) 2-thiazolyl group;

(Ff21) 2- or 4-quinolinyl group;

(Ff22) 8-methoxy-3,4-dihydrocarbostyryl-5-yl group; 8-methoxy-1-methyl-3,4-dihydrocarbostyryl-5-yl group; 8-benzyloxy-3,4-dihydrocarbostyryl-5-yl group; 8-methoxycarbostyryl-5-yl group; 8-methoxy-1-methylcarbostyryl-5-yl group; 8-benzyloxycarbostyryl-5-

yl group; 8-methoxy-3,4-dihydrocarbostyril-6-yl group;
 8-methoxy-1-methyl-3,4-dihydrocarbostyril-6-yl group;
 8-benzyloxy-3,4-dihydrocarbostyril-6-yl group; 8-
 methoxycarbostyril-6-yl group; 8-methoxy-1-methyl-
 5 carbostyril-6-yl group; 8-benzyloxycarbostyril-6-yl
 group;

(Ff23) 6-imidazo[2,1-b]thiazolyl group;
 (Ff24) 2-imidazo[2,1-a]pyridyl group;
 (Ff25) 2,2-dimethyl-6-chromanyl group; or
 10 (Ff26) 2,3-dihydro-5-benzofuranyl group,
 (F12-3) morpholino group;
 (F12-4) 1-imidazolyl group;
 (F12-5) 1,4-dioxa-8-azaspiro[4,5]-8-decyl

group;

15 (F12-6) 4-tert-butoxycarbonyl-1-
 homopiperazinyl group; 4-benzyloxycarbonyl-1-
 homopiperazinyl group; 4-(4-biphenyl)-1-
 homopiperazinyl group,

(F12-7) 1-tert-butyl-2-piperazinon-4-yl
 20 group; 1-(4-trifluoromethylbenzyl)-2-piperazinon-4-yl
 group,

(F12-8) 4-oxo-1-piperidinyl group;

(F12-9) 2-(4-trifluoromethoxyphenoxyethyl)-
 pyrrolidin-1-yl group; and

25 (F12-10) 2-isoindolinyl group, and

F13) moreover, R^{19} and R^{20} may bind to each
 other together with nitrogen atoms adjacent thereto
 directly or through hetero atoms, so as to form a

cyclic imide or amide shown in any one of (F13-1) to (F13-11) indicated below:

(F13-1) 2-succinimide group;

(F13-2) 2-oxooxazolin-3-yl group;

5 (F13-3) 2-oxobenzo-1,3-oxazolidin-3-yl group;
5-bromo-2-oxobenzo-1,3-oxazolidin-3-yl group; 5-chloro-
2-oxobenzo-1,3-oxazolidin-3-yl group; 5-phenyl-2-
oxobenzo-1,3-oxazolidin-3-yl group;

(F13-4) 2-oxoimidazolidin-1-yl group (wherein
10 the position-3 of 2-oxoimidazolidin-1-yl group may be
substituted by a phenyl C1-6 alkyl group (which may be
substituted on the phenyl ring by 1 to 3 groups
selected from the group consisting of a halogen atom
and a methoxy group), or a phenyl group);

15 (F13-5) 2-oxobenzimidazolidin-1-yl group
(which may be substituted on the benzene ring by a
halogen atom, halogen-substituted or unsubstituted C1-6
alkyl group, dimethylamino group, or ethoxycarbonyl
group; or the position-3 of the imidazolidine ring may
20 be substituted by a 4-piperidinyl group, which may be
substituted by a group selected from the group
consisting of a C1-6 alkyl group, a phenyl group
wherein 1 to 3 halogen atoms may be substituted on the
phenyl ring, a tert-butoxycarbonyl group, and a
25 benzyloxycarbonyl group);

(F13-6) phthalimid-2-yl group;

(F13-7) oxyindol-1-yl group, wherein the
position-3 may be substituted by 2 methyl groups or

fluorine atoms;

(F13-8) benzoic sulfimid-2-yl group;

(F13-9) 1H-2,4-benzoxazin-3(4H)-on-4-yl
group;

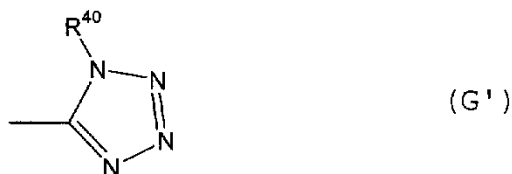
5 (F13-10) a group represented by the following
general formula (Fga'):



wherein R³⁹ represents: a hydrogen atom;
halogen-substituted or unsubstituted phenyl C1-6 alkyl
group; halogen-substituted or unsubstituted phenoxy-
10 methyl group; halogen-substituted or unsubstituted
styryl group; phenyl group which may be substituted by
at least one group selected from a group consisting of
a halogen atom, a halogen-substituted or unsubstituted
C1-6 alkyl group, and a halogen-substituted or
15 unsubstituted C1-6 alkoxy group; biphenyl group; 4-
pyridyl group; or 2-pyrazinyl group, and

(F13-11) 5-(4-trifluoromethylbenzylidene)-
1,3-thiazolidine-2,4-dion-3-yl group;

a group represented by the following general
20 formula (G'):



wherein R^{40} represents a C1-6 alkyl group, or halogen-substituted or unsubstituted phenyl group, a spiro ring group represented by the following general formula (H'):



5 wherein R^{41} represents:

H1) hydrogen atom;

H2) C1-6 alkyl group;

H3) phenyl C1-6 alkyl group or 4-biphenylyl C1-6 alkyl group;

10 H4) phenyl group (which may be substituted by a halogen-substituted or unsubstituted C1-6 alkyl group);

H5) 4-substituted-1-piperazinyl C1-6 alkyl group (wherein the substituent at the position-4 is a C1-6 alkoxy-carbonyl group, 4-biphenylylmethoxycarbonyl group or benzyloxycarbonyl group, and the benzyloxy-carbonyl group may be substituted by 1 to 3 groups selected from the group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group on the benzene ring);

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H6) 4-substituted-1-piperazinylcarbonyl C1-6 alkyl group, wherein the position-4 is substituted with a C1-6 alkylcarbonyl group, 4-trifluoromethylbenzyloxy-carbonyl group, 4-trifluoromethylbenzyl group, or
5 biphenylylmethyl group;

H7) 4-trifluoromethylphenylcarbamoyl C1-6 alkyl group;

H8) 2-benzoxazolon-1-ylpropyl group;

H9) 2-benzothiazolyl group;

10 H10) 1-phenyl-5-tetrazolyl group;

H11) methanesulfonyl group;

H12) benzenesulfonyl or p-toluenesulfonyl group;

H13) phenylthiocarbamoyl group, wherein the
15 position-4 of the phenyl ring may be substituted by a halogen atom;

H14) C1-8 alkoxy carbonyl group;

H15) phenyl C1-6 alkoxy carbonyl group (which
may be substituted on the phenyl ring by at least one
20 group selected from the group consisting of a halogen atom, a C1-6 alkoxy carbonyl group, a C1-6 alkoxy-carbonylamino group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group, a nitro group, and
25 a methylthio group);

H16) benzhydryloxy carbonyl group (which may be substituted on the phenyl ring by 1 to 4 halogen atoms);

H17) 4-biphenylylmethoxycarbonyl group;

H18) naphthylmethoxycarbonyl group;

H19) pyridylmethoxycarbonyl group;

H20) methoxyethoxycarbonyl group;

5 H21) 2-(1-piperazinyl)ethoxycarbonyl group
wherein the position-4 may be substituted by a C1-6
alkoxycarbonyl group, or halogen-substituted or
unsubstituted phenyl C1-6 alkoxycarbonyl group;

H22) phenoxycarbonyl group (which may be
10 substituted on the phenyl ring by at least one group
selected from the group consisting of a C1-6 alkyl
group and a C1-6 alkoxy group);

H23) C1-6 alkanoyl group;

H24) benzoyl group (which may be substituted
15 on the phenyl ring by at least one halogen-substituted
or unsubstituted C1-6 alkyl group);

H25) phenyl C2-6 alkanoyl group (which may be
substituted on the phenyl ring by at least one halogen-
substituted or unsubstituted C1-6 alkyl group);

20 H26) phenoxy C2-6 alkanoyl group (which may
be substituted by 1 to 3 halogen atoms on the phenyl
ring);

H27) 4-substituted-1-piperazinyl C2-6
alkanoyl group (wherein the substituent at the
25 position-4 is a C1-6 alkanoyl group, phenyl C1-6 alkyl
group, 4-biphenylylmethyl group, phenyl C1-6
alkoxycarbonyl group, phenylcarbamoylmethyl group,
phenyl carbamoyl group, or 2-benzoxazolyl group; and

the phenyl ring of each of these phenyl C1-6 alkyl group, phenyl C1-6 alkoxy-carbonyl group, phenyl-carbamoylmethyl group and phenyl carbamoyl group, may be substituted by 1 to 3 groups selected from the
5 group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group);

H28) phenyl-carbamoyl group (which may be
10 substituted on the phenyl ring by 1 to 3 groups selected from the group consisting of a halogen atom, a dimethylamino group, a carboxyl group, a C1-6 alkoxy-carbonyl group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubsti-
15 tuted C1-6 alkoxy group, a 4-methyl-1-piperazinyl group, and a morpholino group);

H29) benzyl-carbamoyl group (which may be substituted on the phenyl ring by at least one group selected from the group consisting of a halogen-
20 substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group); or

H30) 4-substituted-1-piperazinyl-carbonyl group, wherein the position-4 is substituted with a
25 tert-butoxycarbonyl group, 4-trifluoromethylbenzyloxy-carbonyl group, or 4-trifluoromethylbenzyl group,

provided that, in the above general formula (1') when R^1 represents a hydrogen atom and R^2

represents a group represented by the above general formula (A'), then R^3 cannot be an isopropyl group; when R^1 represents a hydrogen atom, R^2 represents a group represented by the above general formula (E'), and m is 5 0, then R^{11} cannot be a hydrogen atom; and further, when R^1 represents a hydrogen atom and R^2 represents a group represented by the above general formula (F'), then it is not possible that R^{19} represents a hydrogen atom and R^{20} represents a tert-butoxycarbonyl group.

10 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general 15 formula (A).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), 20 wherein R^2 represents a group represented by general formula (B).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt 25 thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (C).

 The present invention provides 2,3-dihydro-6-

nitroimidazo[2,1-b]oxazole compound, optically active
form thereof, or pharmaceutically acceptable salt
thereof according to the above general formula (1),
wherein R^2 represents a group represented by general
5 formula (D).

The present invention provides 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
form thereof, or pharmaceutically acceptable salt
thereof according to the above general formula (1),
10 wherein R^2 represents a group represented by general
formula (E).

The present invention provides 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
form thereof, or pharmaceutically acceptable salt
15 thereof according to the above general formula (1),
wherein R^2 represents a group represented by general
formula (F).

The present invention provides 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
20 form thereof, or pharmaceutically acceptable salt
thereof according to the above general formula (1),
wherein R^2 represents a group represented by general
formula (G).

The present invention provides 2,3-dihydro-6-
25 nitroimidazo[2,1-b]oxazole compound, optically active
form thereof, or pharmaceutically acceptable salt
thereof according to the above general formula (1),
wherein R^1 and $-(CH_2)_nR^2$ may bind to each other together

with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H).

The present invention provides 2,3-dihydro-6-
5 nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein n is 0 and R^2 represents a group represented by any one of the formula (A) to (G) or R^1 and $-(CH_2)_nR^2$ may
10 bind to each other together with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H).

The present invention provides 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
15 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein n represents an integer of 1 to 6 and R^2 represents a group represented by any one of the formula (A) to (G) or R^1 and $-(CH_2)_nR^2$ may bind to each
20 other together with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H).

The present invention provides 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
25 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^1 represents a hydrogen atom and R^2 represents a group represented by any one of the formula (A) to

(G) or R^1 and $-(CH_2)_nR^2$ may bind to each other together with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H).

5 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^1 represents a C1-6 alkyl group and R^2
10 represents a group represented by any one of the formula (A) to (G) or R^1 and $-(CH_2)_nR^2$ may bind to each other together with carbon atoms adjacent thereto through nitrogen atoms, so as to form a spiro ring represented by general formula (H).

15 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general
20 formula (E) and R^{11} represents any one of (E1) to (E3).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1),
25 wherein R^2 represents a group represented by general formula (E) and R^{11} represents (E4).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active

form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E) and R^{11} represents any one of (E5) to (E9).

5 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general
10 formula (E) and R^{11} represents (E10).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1),
15 wherein R^2 represents a group represented by general formula (E) and R^{11} represents (E11).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt
20 thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E) and R^{11} represents (E12).

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active
25 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula, wherein R^2 represents a group represented by general formula (E) and R^{11} represents (E13).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1),
5 wherein R^2 represents a group represented by general formula (E) and R^{11} represents any one of (E14) to (E17) and (E19) to (E22).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active
10 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E) and R^{11} represents (E18).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active
15 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F) and R^{19} and R^{20} each identically or
20 differently represent any one of (F1) to (F11).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1),
25 wherein R^2 represents a group represented by general formula (F) and R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in any one of (F12-3) to (F12-10) and (F13) directly or

through other hetero atoms or carbon atoms.

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F) and R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-1) directly or through other hetero atoms or carbon atoms.

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F) and R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms.

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E), R^{11} represents (E10), and o is 0.

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt

thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E), R^{11} represents (E10), o is 1, and W represents a group -CO-.

5 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general
10 formula (E), R^{11} represents (E10), o is 1, and W represents a C1-6 alkylene group.

 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt
15 thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E), R^{11} represents (E10), and R^{14} is any one of (Eaa1) to (Eaa2) and (Eaa4) to (Eaa27).

 The present invention provides 2,3-dihydro-6-
20 nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E), R^{11} represents (E10), and R^{14} is (Eaa3).

25 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1),

wherein R^2 represents a group represented by general formula (E), R^{11} represents (E11), and o is 0.

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active
5 form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (E), R^{11} represents (E11), and o is 1.

The present invention provides 2,3-dihydro-6-
10 nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms
15 adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms and R^{26} is any one of (Fd1) to (Fd35), (Fd37) and (Fd39).

The present invention provides 2,3-dihydro-6-
20 nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms
25 adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms and R^{26} is (Fd36).

The present invention provides 2,3-dihydro-6-

nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms and R^{26} is (Fd38).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms, R^{26} is (Fd36) and R^{27} is any one of (Fda1) to (Fda5) and (Fda7) to (Fda34).

The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms, R^{26} is (Fd36) and R^{27} is (Fda6).

The present invention provides 2,3-dihydro-6-

nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general
5 formula (F), R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms, R^{26} is (Fd38) and R^{35} is any one of (Ff1) to (Ff3), (Ff5) to (Ff7), and (Ff9) to (Ff26).

10 The present invention provides 2,3-dihydro-6-nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general
15 formula (F), R^{19} and R^{20} , together with nitrogen atoms adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms, R^{26} is (Fd38) and R^{35} is (Ff4).

 The present invention provides 2,3-dihydro-6-
20 nitroimidazo[2,1-b]oxazole compound, optically active form thereof, or pharmaceutically acceptable salt thereof according to the above general formula (1), wherein R^2 represents a group represented by general formula (F), R^{19} and R^{20} , together with nitrogen atoms
25 adjacent thereto, form a heterocyclic ring shown in (F12-2) directly or through other hetero atoms or carbon atoms, R^{26} is (Fd38) and R^{35} is (Ff8).

 In the compounds represented by general

formula (1) or (1') of the present invention,
particularly preferred are as follows:

- 3-(4-Trifluoromethylphenyl)-2-propenyl 4-(2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazol-2-ylmethyl)piperazin-1-carboxylate,
- 3-(4-trifluoromethylphenyl)-2-propenyl (S)-4-(2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazol-2-ylmethyl)-piperazin-1-carboxylate,
- 3-(4-trifluoromethylphenyl)-2-propenyl (R)-4-(2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazol-2-ylmethyl)-piperazin-1-carboxylate,
- 2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)-piperidin-1-yl]phenoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
- (S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)piperidin-1-yl]phenoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
- (R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)piperidin-1-yl]phenoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
- 2-methyl-6-nitro-2-{4-[1-(4-trifluoromethoxybenzyl)-piperidin-4-yl]phenoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
- (S)-2-methyl-6-nitro-2-{4-[1-(4-trifluoromethoxybenzyl)piperidin-4-yl]phenoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
- (R)-2-methyl-6-nitro-2-{4-[1-(4-trifluoromethoxybenzyl)piperidin-4-yl]phenoxymethyl}-2,3-dihydro-

- imidazo[2,1-b]oxazole,
 6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)piperidin-1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)-
 5 piperidin-1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-6-nitro-2-{4-[4-(4-trifluoromethoxyphenoxy)-piperidin-1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 10 2-methyl-6-nitro-2-{4-[3-(4-trifluoromethoxyphenoxy)-8-azabicyclo[3.2.1]octan-8-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-{4-[3-(4-trifluoromethoxyphenoxy)-8-azabicyclo[3.2.1]octan-8-yl]phenoxy-methyl}-
 15 2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-{4-[3-(4-trifluoromethoxyphenoxy)-8-azabicyclo[3.2.1]octan-8-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-{4-[3-(4-trifluoromethoxyphenoxy)-8-azabicyclo[3.2.1]octan-8-yl]phenoxy-methyl}-
 20 2,3-dihydroimidazo[2,1-b]oxazole 4-toluene sulfonate,
 2-methyl-6-nitro-2-[4-(4-trifluoromethylbenzylideneamino)piperazin-1-yl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-(4-trifluoromethylbenzylideneamino)piperazin-1-yl]-2,3-dihydroimidazo-
 25 [2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-[4-(4-trifluoromethylbenzylideneamino)piperazin-1-yl]-2,3-dihydroimidazo-

- [2,1-b]oxazole,
2-[4-(5-chlorobenzofuran-2-ylmethyleneamino)piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
- 5 (S)-2-[4-(5-chlorobenzofuran-2-ylmethyleneamino)-piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
(R)-2-[4-(5-chlorobenzofuran-2-ylmethyleneamino)-piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo-
- 10 [2,1-b]oxazole,
2-[4-(5-trifluoromethylbenzofuran-2-ylmethyleneamino)-piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
(S)-2-[4-(5-trifluoromethylbenzofuran-2-ylmethylene-
- 15 amino)piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
(R)-2-[4-(5-trifluoromethylbenzofuran-2-ylmethyleneamino)piperazin-1-yl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
- 20 2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylbenzyl)-piperazin-1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
(S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylbenzyl)piperazin-1-yl]phenoxyethyl}-2,3-
- 25 dihydroimidazo[2,1-b]oxazole,
(R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylbenzyl)piperazin-1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxybenzyl)-
piperazin-1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-
b]oxazole,

(S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxy-
5 benzyl)piperazin-1-yl]phenoxy-methyl}-2,3-dihydro-
imidazo[2,1-b]oxazole,

(R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxy-
benzyl)piperazin-1-yl]phenoxy-methyl}-2,3-dihydro-
imidazo[2,1-b]oxazole,

10 2-methyl-6-nitro-2-[4-(4-trifluoromethylphenoxy)-
piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,

(S)-2-methyl-6-nitro-2-[4-(4-trifluoromethylphenoxy)-
piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,

(R)-2-methyl-6-nitro-2-[4-(4-trifluoromethylphenoxy)-
15 piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
2-[4-(4-trifluoromethoxyphenyl)piperazin-1-ylmethyl]-2-
methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,

(S)-2-[4-(4-trifluoromethoxyphenyl)piperazin-1-
ylmethyl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-

20 b]oxazole,

(R)-2-[4-(4-trifluoromethoxyphenyl)piperazin-1-
ylmethyl]-2-methyl-6-nitro-2,3-dihydroimidazo[2,1-
b]oxazole,

2-[4-(4-chlorophenyl)piperazin-1-ylmethyl]-2-methyl-6-
25 nitro-2,3-dihydroimidazo[2,1-b]oxazole,

(S)-2-[4-(4-chlorophenyl)piperazin-1-ylmethyl]-2-
methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,

(R)-2-[4-(4-chlorophenyl)piperazin-1-ylmethyl]-2-

methyl-6-nitro-2,3-dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-[4-(4'-trifluoromethylbiphenyl-4-
 ylmethyl)piperazin-1-ylmethyl]-2,3-dihydroimidazo[2,1-
 b]oxazole,

5 (S)-2-methyl-6-nitro-2-[4-(4'-trifluoromethylbiphenyl-
 4-ylmethyl)piperazin-1-ylmethyl]-2,3-dihydroimidazo-
 [2,1-b]oxazole,

(R)-2-methyl-6-nitro-2-[4-(4'-trifluoromethylbiphenyl-
 4-ylmethyl)piperazin-1-ylmethyl]-2,3-

10 dihydroimidazo[2,1-b]oxazole,

2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylphenyl)-
 piperazin-1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-
 b]oxazole,

(S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylphenyl)-
 15 piperazin-1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-
 b]oxazole,

(R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylphenyl)-
 piperazin-1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-
 b]oxazole,

20 2-methyl-6-nitro-2-{4-[4-(4-chlorobenzyl)piperazin-1-
 yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

(S)-2-methyl-6-nitro-2-{4-[4-(4-chlorobenzyl)piperazin-
 1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

(R)-2-methyl-6-nitro-2-{4-[4-(4-chlorobenzyl)piperazin-
 25 1-yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

2-methyl-6-nitro-2-{4-[4-(4-chlorophenyl)piperazin-1-
 yl]phenoxyethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

(S)-2-methyl-6-nitro-2-{4-[4-(4-chlorophenyl)piperazin-

- 1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-{4-[4-(4-chlorophenyl)piperazin-
 1-yl]phenoxy-methyl}-2,3-dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxybenzyloxy-
 5 carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxy-
 benzyloxy-carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 dihydroimidazo[2,1-b]oxazole,
 10 (R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethoxy-
 benzyloxy-carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-{4-[4-(3,4-dichlorobenzyloxy-
 carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 15 dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-{4-[4-(3,4-dichlorobenzyloxy-
 carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-{4-[4-(3,4-dichlorobenzyloxy-
 20 carbonyl)piperazin-1-yl]phenoxy-methyl}-2,3-
 dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-[4-(4-trifluoromethoxyphenoxy)-
 piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-(4-trifluoromethoxyphenoxy)-
 25 piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-[4-(4-trifluoromethoxyphenoxy)-
 piperidin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-[4-(4-trifluoromethylphenyl)-

- piperazin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-(4-trifluoromethylphenyl)-
 piperazin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-[4-(4-trifluoromethylphenyl)-
 5 piperazin-1-ylmethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-[4-(5-trifluoromethoxylbenzofuran-2-
 ylmethyleneamino)piperazin-1-ylmethyl]-2,3-
 dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-(5-trifluoromethoxyl-
 10 benzofuran-2-ylmethyleneamino)piperazin-1-ylmethyl]-
 2,3-dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-[4-(5-trifluoromethoxyl-
 benzofuran-2-ylmethyleneamino)piperazin-1-ylmethyl]-
 2,3-dihydroimidazo[2,1-b]oxazole,
 15 2-methyl-6-nitro-2-[4-(5-trifluoromethylbenzofuran-2-
 ylmethyleneamino)piperazin-1-ylmethyl]-2,3-
 dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-(5-trifluoromethylbenzofuran-
 2-ylmethyleneamino)piperazin-1-ylmethyl]-2,3-
 20 dihydroimidazo[2,1-b]oxazole,
 (R)-2-methyl-6-nitro-2-[4-(5-trifluoromethylbenzofuran-
 2-ylmethyleneamino)piperazin-1-ylmethyl]-2,3-
 dihydroimidazo[2,1-b]oxazole,
 2-methyl-6-nitro-2-[4-[4-(4-chlorophenoxy)piperidin-1-
 25 yl]phoxymethyl]-2,3-dihydroimidazo[2,1-b]oxazole,
 (S)-2-methyl-6-nitro-2-[4-[4-(4-chlorophenoxy)-
 piperidin-1-yl]phoxymethyl]-2,3-dihydroimidazo[2,1-
 b]oxazole,

(R)-2-methyl-6-nitro-2-{4-[4-(4-chlorophenoxy)-
piperidin-1-yl]phoxymethyl}-2,3-dihydroimidazo[2,1-
b]oxazole,

2-methyl-6-nitro-2-{4-[4-(4-trifluoromethylphenoxy)-
5 piperidin-1-yl]phoxymethyl}-2,3-dihydroimidazo[2,1-
b]oxazole,

(S)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethyl-
phenoxy)piperidin-1-yl]phoxymethyl}-2,3-
dihydroimidazo[2,1-b]oxazole,

10 (R)-2-methyl-6-nitro-2-{4-[4-(4-trifluoromethyl-
phenoxy)piperidin-1-yl]phoxymethyl}-2,3-
dihydroimidazo[2,1-b]oxazole,

2-methyl-6-nitro-2-{4-[1-(4-chlorobenzyl)piperidin-4-
yl]phoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,

15 (S)-2-methyl-6-nitro-2-{4-[1-(4-chlorobenzyl)piperidin-
4-yl]phoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole,
or

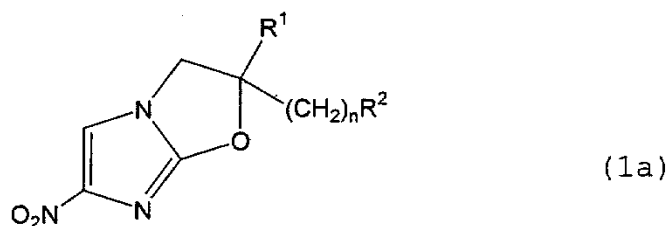
(R)-2-methyl-6-nitro-2-{4-[1-(4-chlorobenzyl)piperidin-
4-yl]phoxymethyl}-2,3-dihydroimidazo[2,1-b]oxazole.

20 The present invention provides a pharma-
ceutical composition which is an antitubercular agent
comprising, as an active ingredient, the 2,3-dihydro-6-
nitroimidazo[2,1-b]oxazole compound, optically active
form thereof, or pharmacologically acceptable salt
25 thereof represented by general formula (1) or (1').

In particular, the present invention provides
a pharmaceutical composition which is an antitubercular
agent comprising, as an active ingredient, at least one

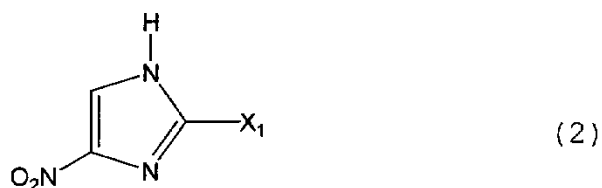
compound selected from the 2,3-dihydro-6-nitroimidazo-[2,1-b]oxazole compounds that are preferred compound listed above.

The present invention provides a method for
5 producing a compound represented by the following general formula (1a):

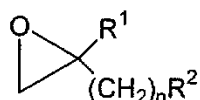


wherein R^1 , R^2 and n are defined as the same as in claim 1,

10 said production method comprising: the reaction of a 4-nitroimidazole compound represented by the following general formula (2):

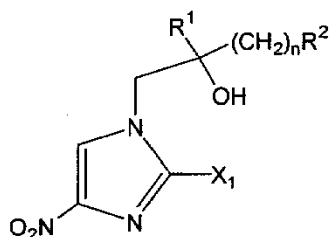


wherein X_1 represents a halogen atom or nitro group,
15 with an epoxy compound represented by the following general formula (3a):



(3a)

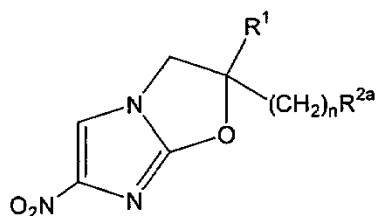
wherein R^1 , R^2 and n are defined as the same as in claim 1, so as to obtain a compound represented by the following general formula (4a):



(4a)

5 wherein R^1 , R^2 and n are defined as the same as in claim 1, and X_1 represents a halogen atom or nitro group; and the following ring closure of the obtained compound represented by the above general formula (4a).

The present invention provides a method for
10 producing a compound represented by the following general formula (1b):

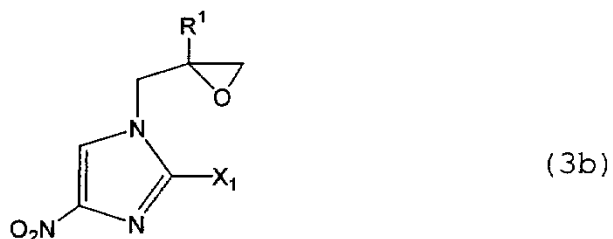


(1b)

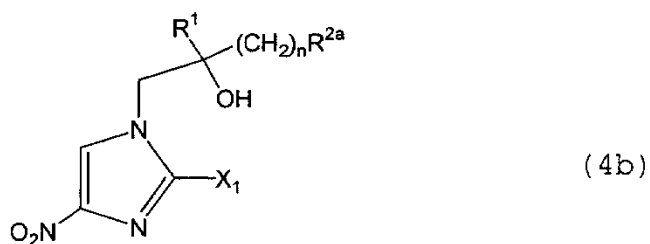
wherein R^1 is as defined in claim 1, and R^{2a} represents a group represented by the general formula (A), (B), (E)

or (F) according to claim 1,

said production method comprising: the reaction of a compound represented by the following general formula (3b):



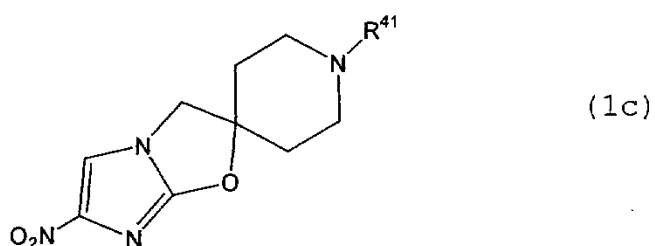
5 wherein R^1 is as defined in claim 1, and X_1 represents a halogen atom or nitro group,
with a compound (5) represented by the following
general formula $R^{2a}H$ (5) or a salt thereof,
wherein R^{2a} represents the group represented by the
10 general formula (A), (B), (E) or (F) according to claim
1, so as to obtain a compound represented by the
following general formula (4b):



wherein R^1 is as defined in claim 1, R^{2a} represents the
group represented by the general formula (A), (B), (E)
15 or (F) according to claim 1, and X_1 represents a halogen
atom or nitro group; and

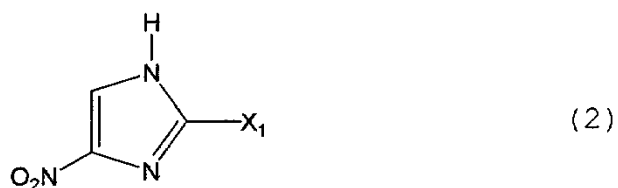
the following ring closure of the obtained compound represented by the above general formula (4b).

The present invention provides a method for producing a compound represented by the following
5 general formula (1c):

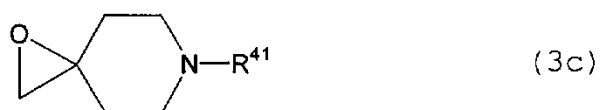


wherein R^{41} is as defined in claim 1,

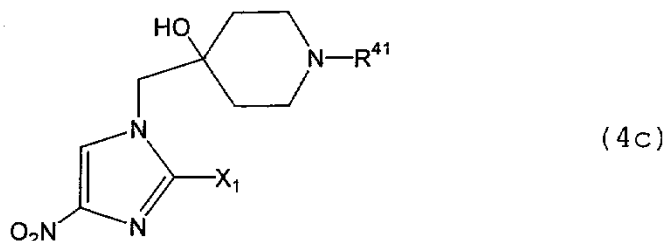
said production method comprising: the reaction of a compound represented by the following general formula (2):



10 wherein X_1 represents a halogen atom or nitro group, with a compound represented by the following general formula (3c):



wherein R^{41} is as defined in claim 1,
 so as to obtain a compound represented by the following
 general formula (4c):



wherein R^{41} is as defined in claim 1, and X_1 represents a
 5 halogen atom or nitro group; and
 the following ring closure of the obtained compound
 represented by the above general formula (4c).

BEST MODE FOR CARRYING OUT THE INVENTION

In this specification, each group represented
 10 by R^1 , R^2 , R^3 or the like is specifically as follows:

Examples of halogen atoms are, for example,
 fluorine atom, chlorine atom, bromine atom and iodine
 atom.

A C1-6 alkyl group is a straight or branched
 15 alkyl group containing 1 to 6 carbon atoms, examples of
 which include a methyl group, ethyl group, n-propyl
 group, isopropyl group, n-butyl group, isobutyl group,
 tert-butyl group, sec-butyl group, n-pentyl group,
 neopentyl group, n-hexyl group, isohexyl group, 3-

methylpentyl group or the like.

A C1-6 alkylene group is a straight or branched alkylene group containing 1 to 6 carbon atoms, examples of which include a methylene group, ethylene
5 group, trimethylene group, 2-methyltrimethylene group, 2,2-dimethyltrimethylene group, 1-methyltrimethylene group, methylmethylene group, ethylmethylene group, tetramethylene group, pentamethylene group, hexamethylene group or the like.

10 A C1-6 alkoxy group is a group containing a C1-6 alkyl group, as defined above, and an oxygen atom, examples of which include a methoxy group, ethoxy group, n-propoxy group, isopropoxy group, n-butoxy group, isobutoxy group, tert-butoxy group, sec-butoxy
15 group, n-pentoxy group, neopentoxy group, n-hexyloxy group, isohexyloxy group, 3-methylpentoxy group or the like.

A C1-6 alkoxy-C1-6 alkyl group is a group containing a C1-6 alkyl group and C1-6 alkoxy group
20 described above, examples of which include a methoxymethyl group, 2-methoxyethyl group, 3-methoxypropyl group, 4-methoxybutyl group, 5-methoxypentyl group, 6-methoxyhexyl group, ethoxymethyl group, 2-ethoxyethyl group, 3-ethoxypropyl group, 2-isopropoxyethyl group,
25 tert-butoxymethyl group, 2-(tert-butoxy)ethyl group, 3-(tert-butoxy)propyl group, 6-(tert-butoxy)hexyl group, 4-(tert-butoxy)butyl group or the like.

A halogen-substituted or unsubstituted C1-6

alkyl group is a straight or branched alkyl group containing 1 to 6 carbon atoms, as defined above, and optionally substituted by 1 to 7 halogen atoms, examples of which include a methyl group, ethyl group, 5 n-propyl group, isopropyl group, n-butyl group, isobutyl group, tert-butyl group, sec-butyl group, n-pentyl group, neopentyl group, n-hexyl group, isohexyl group, 3-methylpentyl group, fluoromethyl group, difluoromethyl group, trifluoromethyl group, chloro- 10 methyl group, dichloromethyl group, trichloromethyl group, bromomethyl group, dibromomethyl group, dichlorofluoromethyl group, 2,2,2-trifluoroethyl group, pentafluoroethyl group, 2-chloroethyl group, 3,3,3-trifluoropropyl group, heptafluoropropyl group, 15 heptafluoroisopropyl group, 3-chloropropyl group, 2-chloropropyl group, 3-bromopropyl group, 4,4,4-trifluorobutyl group, 4,4,4,3,3-pentafluorobutyl group, 4-chlorobutyl group, 4-bromobutyl group, 2-chlorobutyl group, 5,5,5-trifluoropentyl group, 5-chloropentyl 20 group, 6,6,6-trifluorohexyl group, 6-chlorohexyl group or the like.

A halogen-substituted or unsubstituted C1-6 alkoxy group is a C1-6 alkoxy group, as defined above, and an alkoxy group substituted by 1 to 7 halogen 25 atoms, examples of which include a methoxy group, ethoxy group, n-propoxy group, isopropoxy group, n-butoxy group, isobutoxy group, tert-butoxy group, sec-butoxy group, n-pentoxy group, neopentoxy group, n-

- hexyloxy group, isohexyloxy group, 3-methylpentoxy group, fluoromethoxy group, difluoromethoxy group, trifluoromethoxy group, chloromethoxy group, dichloromethoxy group, trichloromethoxy group,
- 5 bromomethoxy group, dibromomethoxy group, dichloro-fluoromethoxy group, 2,2,2-trifluoroethoxy group, pentafluoroethoxy group, 2-chloroethoxy group, 3,3,3-trifluoropropoxy group, heptafluoropropoxy group, heptafluoroisopropoxy group, 3-chloropropoxy group, 2-
- 10 chloropropoxy group, 3-bromopropoxy group, 4,4,4-trifluorobutoxy group, 4,4,4,3,3-pentafluorobutoxy group, 4-chlorobutoxy group, 4-bromobutoxy group, 2-chlorobutoxy group, 5,5,5-trifluoropentoxy group, 5-chloropentoxy group, 6,6,6-trifluorohexyloxy group, 6-
- 15 chlorohexyloxy group or the like.

Examples of a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a phenyl C1-6 alkoxy group; a halogen-substituted or unsubstituted

20 C1-6 alkyl group; a halogen-substituted or unsubstituted C1-6 alkoxy group; and phenoxy group which may have at least one halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent on the phenyl ring) include a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from

25 a group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy

group, and a phenoxy group which may have 1 to 3 a halogen-substituted or unsubstituted C1-6 alkoxy groups as a substituent on the phenyl ring), for example, a benzyl group, 1-phenethyl group, 2-phenethyl group, 3-phenylpropyl group, 2-phenylpropyl group, 4-phenylbutyl group, 5-phenylpentyl group, 4-phenylpentyl group, 6-phenylhexyl group, 2-benzyloxybenzyl group, 3-benzyloxybenzyl group, 4-benzyloxybenzyl group, 2,4-dibenzyloxybenzyl group, 2,4,6-tribenzyloxybenzyl group, 2-(2-phenethyloxy)benzyl group, 3-(2-phenethyloxy)benzyl group, 4-(2-phenethyloxy)benzyl group, 2-(3-phenylpropoxy)benzyl group, 3-(3-phenylpropoxy)benzyl group, 4-(3-phenylpropoxy)benzyl group, 2-(4-phenylbutoxy)benzyl group, 3-(4-phenylbutoxy)benzyl group, 4-(4-phenylbutoxy)benzyl group, 2-(5-phenylpentyloxy)benzyl group, 3-(5-phenylpentyloxy)benzyl group, 4-(5-phenylpentyloxy)benzyl group, 2-(6-phenylhexyloxy)benzyl group, 3-(6-phenylhexyloxy)benzyl group, 4-(6-phenylhexyloxy)benzyl group, 2-methybenzyl group, 2,3-dimethybenzyl group, 3,4-dimethybenzyl group, 3,5-dimethybenzyl group, 2,6-dimethybenzyl group, 2,4-dimethybenzyl group, 2,5-dimethybenzyl group, 2,4,6-trimethybenzyl group, 3,5-ditrifluoromethylbenzyl group, 2,4,6-trifluoromethylbenzyl group, 2-trifluoromethylbenzyl group, 3-trifluoromethylbenzyl group, 4-trifluoromethylbenzyl group, 2-trifluoromethoxybenzyl group, 3-trifluoromethoxybenzyl group, 4-trifluoromethoxybenzyl group, 3-methoxybenzyl group,

2,3-dimethoxybenzyl group, 3,4-dimethoxybenzyl group,
 3,5-dimethoxybenzyl group, 2,6-dimethoxybenzyl group,
 2,4-dimethoxybenzyl group, 2,5-dimethoxybenzyl group,
 2,4,6-trimethoxybenzyl group, 2,6-ditrifluoromethoxy-
 5 benzyl group, 2,3,4-trifluoromethoxybenzyl group, 1-(4-
 benzyloxyphenyl)ethyl group, 1-(3-benzyloxyphenyl)ethyl
 group, 1-(2-benzyloxyphenyl)ethyl group, 1-(2-
 trifluoromethylphenyl)ethyl group, 1-(3-trifluoro-
 methylphenyl)ethyl group, 1-(4-trifluoromethylphenyl)-
 10 ethyl group, 1-(2-trifluoromethoxyphenyl)ethyl group,
 1-(3-trifluoromethoxyphenyl)ethyl group, 1-(4-
 trifluoromethoxyphenyl)ethyl group, 2-(4-benzyloxy-
 phenyl)ethyl group, 2-(3-benzyloxyphenyl)ethyl group,
 2-(2-benzyloxyphenyl)ethyl group, 2-(2-trifluoromethyl-
 15 phenyl)ethyl group, 2-(3-trifluoromethylphenyl)ethyl
 group, 2-(4-trifluoromethylphenyl)ethyl group, 2-(2-
 trifluoromethoxyphenyl)ethyl group, 2-(3-trifluoro-
 methoxyphenyl)ethyl group, 2-(4-trifluoromethoxy-
 phenyl)ethyl group, 3-(4-benzyloxyphenyl)propyl group,
 20 3-(3-benzyloxyphenyl)propyl group, 3-(2-benzyloxy-
 phenyl)propyl group, 3-(2-trifluoromethylphenyl)propyl
 group, 3-(3-trifluoromethylphenyl)propyl group, 3-(4-
 trifluoromethylphenyl)propyl group, 3-(2-trifluoro-
 methoxyphenyl)propyl group, 3-(3-trifluoromethoxy-
 25 phenyl)propyl group, 3-(4-trifluoromethoxyphenyl)propyl
 group, 4-(3-trifluoromethylphenyl)butyl group, 5-(4-
 trifluoromethylphenyl)pentyl group, 4-(4-trifluoro-
 methylphenyl)pentyl group, 4-(4-trifluoromethoxy-

phenyl)pentyl group, 6-(3-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethoxyphenyl)hexyl group, 2-phenoxybenzyl group, 3-phenoxybenzyl group, 4-phenoxybenzyl group, 5 2,5-diphenoxybenzyl group, 2,4,6-triphenoxybenzyl group, 1-(4-phenoxyphenyl)ethyl group, 1-(3-phenoxyphenyl)ethyl group, 1-(2-phenoxyphenyl)ethyl group, 3-(4-phenoxyphenyl)propyl group, 3-(3-phenoxyphenyl)propyl group, 3-(2-phenoxyphenyl)propyl group, 10 2-(4-trifluoromethoxyphenoxy)benzyl group, 3-(4-trifluoromethoxyphenoxy)benzyl group, 4-(4-trifluoromethoxyphenoxy)benzyl group, 1-(4-(4-trifluoromethoxyphenoxy)phenyl)ethyl group, 1-(3-(4-trifluoromethoxyphenoxy)phenyl)ethyl group, 1-(2-(4-trifluoromethoxyphenoxy)phenyl)ethyl group, 15 3-(4-(4-trifluoromethoxyphenoxy)phenyl)propyl group, 3-(3-(4-trifluoromethoxyphenoxy)phenyl)propyl group, 3-(2-(4-trifluoromethoxyphenoxy)phenyl)propyl group, 2-trifluoromethyl-3-trifluoromethoxybenzyl group, 2-benzyloxy-3-trifluoromethoxybenzyl group, 20 trifluoromethoxybenzyl group, 3-phenoxy-4-trifluoromethylbenzyl group or the like.

Examples of a biphenyl C1-6 alkyl group include the phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 3 groups 25 selected from a group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, a halogen-substituted or unsubstituted C1-6 alkoxy group and a phenoxy group

which may have at least one halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent on the phenyl ring), for example, a 2-biphenylylmethyl group, 2-(2-biphenylyl)ethyl group, 3-(2-biphenylyl)propyl
 5 group, 4-(2-biphenylyl)butyl group, 5-(2-biphenylyl)-pentyl group, 6-(2-biphenylyl)hexyl group, 3-biphenylylmethyl group, 2-(3-biphenylyl)ethyl group, 3-(3-biphenylyl)propyl group, 4-(3-biphenylyl)butyl
 10 group, 5-(3-biphenylyl)pentyl group, 6-(3-biphenylyl)-hexyl group, 4-biphenylylmethyl group, 2-(4-biphenylyl)ethyl group, 3-(4-biphenylyl)propyl group, 4-(4-biphenylyl)butyl group, 5-(4-biphenylyl)pentyl group, 6-(4-biphenylyl)hexyl group or the like.

A phenyl C2-6 alkenyl group is a group
 15 containing a phenyl group and an alkenyl group having 2 to 6 carbon atoms and 1 to 3 double bonds. These groups may be either in trans or cis form and both forms are included as a matter of course. For example, included is a 3-phenyl-2-propenyl group (trivial name:
 20 cinnamyl group), 4-phenyl-2-butenyl group, 4-phenyl-3-butenyl group, 5-phenyl-4-pentenyl group, 5-phenyl-3-pentenyl group, 6-phenyl-5-hexenyl group, 6-phenyl-4-hexenyl group, 6-phenyl-3-hexenyl group, 4-phenyl-1,3-butadienyl group, 6-phenyl-1,3,5-hexatrienyl group or
 25 the like.

A C1-6 alkylsulfonyl group is a group containing an alkyl group containing 1 to 6 carbon atoms and a sulfonyl group, examples of which include a

methanesulfonyl group, ethanesulfonyl group, propane-sulfonyl group, butanesulfonyl group, pentanesulfonyl group, hexanesulfonyl group or the like.

Examples of a benzene sulfonyl group which
5 may be substituted by a C1-6 alkyl group include a benzenesulfonyl group which may be substituted by 1 to 3 C1-6 alkyl groups, for example, a benzene sulfonyl group, o-toluenesulfonyl group, m-toluenesulfonyl group, p-toluenesulfonyl group, 2-ethylbenzenesulfonyl
10 group, 3-ethylbenzenesulfonyl group, 4-ethylbenzenesulfonyl group, 2-propylbenzenesulfonyl group, 3-propylbenzenesulfonyl group, 4-propylbenzenesulfonyl group, 2,3-dimethylbenzenesulfonyl group, 2,4-dimethylbenzenesulfonyl group, 2,4,6-trimethylbenzene-
15 sulfonyl group or the like.

A C1-6 alkanoyl group is a group derived from an aliphatic carboxylic acid containing 1 to 6 carbon atoms, examples of which include a formyl group, acetyl group, propionyl group, butyryl group, pentanoyl group,
20 hexanoyl group or the like.

A C1-6 alkoxycarbonyl group is a group containing a C1-6 alkoxy group, as defined above, and a carbonyl group, examples of which include a methoxycarbonyl group, ethoxycarbonyl group, propoxycarbonyl
25 group, isopropoxycarbonyl group, n-butoxycarbonyl group, isobutoxycarbonyl group, tert-butoxycarbonyl group, sec-butoxycarbonyl group, n-pentoxycarbonyl group, neopentoxycarbonyl group, n-hexyloxycarbonyl group,

isohexyloxycarbonyl group, 3-methylpentoxycarbonyl group or the like.

A phenyl C1-6 alkoxy carbonyl group (which may be substituted on the phenyl ring by at least one group
5 selected from a group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group) is a group containing a phenyl C1-6 alkoxy group which may be substituted on
10 the phenyl ring, as defined above, by 1 to 3 groups selected from a group consisting of a phenyl C1-6 alkoxy group, a halogen-substituted or unsubstituted C1-6 alkyl group, and a halogen-substituted or unsubstituted C1-6 alkoxy group and a carbonyl group,
15 examples of which include a benzyloxycarbonyl group, 1-phenylethoxycarbonyl group, 2-phenylethoxycarbonyl group, 3-phenylpropoxycarbonyl group, 2-phenylpropoxycarbonyl group, 4-phenylbutoxycarbonyl group, 5-phenylpentoxycarbonyl group, 4-phenylpentoxycarbonyl
20 group, 6-phenylhexyloxycarbonyl group, 2-benzyloxybenzyloxycarbonyl group, 3-benzyloxybenzyloxycarbonyl group, 4-benzyloxybenzyloxycarbonyl group, 2,4-dibenzyloxybenzyloxycarbonyl group, 3,4,5-benzyloxybenzyloxycarbonyl group, 2-trifluoromethylbenzyloxy-
25 carbonyl group, 2-methylbenzyloxycarbonyl group, 3-methylbenzyloxycarbonyl group, 4-methylbenzyloxycarbonyl group, 2,6-dimethylbenzyloxycarbonyl group, 2,4,6-trimethylbenzyloxycarbonyl group, 2,3-ditrifluoro-

- methylbenzyloxycarbonyl group, 2,4,6-tri(trifluoromethyl)benzyloxycarbonyl group, 2-methoxybenzyloxycarbonyl group, 3-methoxybenzyloxycarbonyl group, 4-methoxybenzyloxycarbonyl group, 2,4-dimethoxybenzyloxycarbonyl group, 3,4,5-trimethoxybenzyloxycarbonyl group, 2,5-ditrifluoromethoxybenzyloxycarbonyl group, 2,4,6-tri(trifluoromethoxy)benzyloxycarbonyl group, 3-trifluoromethylbenzyloxycarbonyl group, 4-trifluoromethylbenzyloxycarbonyl group, 2-trifluoromethoxybenzyloxycarbonyl group, 3-trifluoromethoxybenzyloxycarbonyl group, 4-trifluoromethoxybenzyloxycarbonyl group, 2-(2-trifluoromethylphenyl)ethoxycarbonyl group, 2-(3-trifluoromethylphenyl)ethoxycarbonyl group, 2-(4-trifluoromethylphenyl)ethoxycarbonyl group, 2-(2-trifluoromethoxyphenyl)ethoxycarbonyl group, 2-(3-trifluoromethoxyphenyl)ethoxycarbonyl group, 2-(4-trifluoromethoxyphenyl)ethoxycarbonyl group, 3-(4-benzyloxyphenyl)propoxycarbonyl group, 3-(3-benzyloxyphenyl)propoxycarbonyl group, 3-(2-benzyloxyphenyl)propoxycarbonyl group, 3-(2-trifluoromethylphenyl)propoxycarbonyl group, 3-(3-trifluoromethylphenyl)propoxycarbonyl group, 3-(4-trifluoromethylphenyl)propoxycarbonyl group, 3-(2-trifluoromethoxyphenyl)propoxycarbonyl group, 3-(3-trifluoromethoxyphenyl)propoxycarbonyl group, 3-(4-trifluoromethoxyphenyl)propoxycarbonyl group, 4-(3-benzyloxyphenyl)butoxycarbonyl group, 4-(4-benzyloxyphenyl)butoxycarbonyl group, 4-(3-

- trifluoromethylphenyl)butoxycarbonyl group, 4-(4-trifluoromethylphenyl)butoxycarbonyl group, 5-(3-benzyloxyphenyl)pentoxycarbonyl group, 5-(4-benzyloxyphenyl)pentoxycarbonyl group, 5-(4-
- 5 trifluoromethylphenyl)pentoxycarbonyl group, 4-(4-trifluoromethylphenyl)pentoxycarbonyl group, 4-(4-trifluoromethoxyphenyl)pentoxycarbonyl group, 6-(3-benzyloxyphenyl)hexyloxycarbonyl group, 6-(4-benzyloxyphenyl)hexyloxycarbonyl group, 6-[3-(2-
- 10 phenethyloxy)phenyl]hexyloxycarbonyl group, 6-[4-(2-phenethyloxy)phenyl]hexyloxycarbonyl group, 6-[3-(3-phenylpropoxy)phenyl]hexyloxycarbonyl group, 6-[4-(4-phenylbutoxy)phenyl]hexyloxycarbonyl group, 6-[4-(5-phenylpentyloxy)phenyl]hexyloxycarbonyl group, 6-[4-(6-
- 15 phenylhexyloxy)phenyl]hexyloxycarbonyl group, 6-(3-trifluoromethylphenyl)hexyloxycarbonyl group, 6-(4-trifluoromethylphenyl)hexyloxycarbonyl group, 6-(4-trifluoromethoxyphenyl)hexyloxycarbonyl group, 2-
- trifluoromethyl-4-benzyloxybenzyloxycarbonyl group, 3-
- 20 trifluoromethoxy-5-benzyloxybenzyloxycarbonyl group, 2-trifluoromethyl-3-trifluoromethoxybenzyloxycarbonyl group or the like.

Examples of a phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one

25 group selected from a group consisting of a phenyl C1-6 alkoxy group, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group) include a phenyl C1-6 alkyl group

- (which may be substituted on the phenyl ring by 1 to 3 groups selected from a group consisting of a phenyl C1-6 alkoxy group, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or
- 5 unsubstituted C1-6 alkoxy group), for example, a benzyl group, 1-phenethyl group, 2-phenethyl group, 3-phenylpropyl group, 2-phenylpropyl group, 4-phenylbutyl group, 5-phenylpentyl group, 4-phenylpentyl group, 6-phenylhexyl group, 2-benzyloxybenzyl group, 3-
 - 10 benzyloxybenzyl group, 4-benzyloxybenzyl group, 2,4-dibenzyloxybenzyl group, 2,4,6-tribenzyloxybenzyl group, 2-(2-phenethyloxy)benzyl group, 3-(2-phenethyloxy)benzyl group, 4-(2-phenethyloxy)benzyl group, 2-(3-phenylpropoxy)benzyl group, 3-(3-
 - 15 phenylpropoxy)benzyl group, 4-(3-phenylpropoxy)benzyl group, 2-(4-phenylbutoxy)benzyl group, 3-(4-phenylbutoxy)benzyl group, 4-(4-phenylbutoxy)benzyl group, 2-(5-phenylpentyloxy)benzyl group, 3-(5-phenylpentyloxy)benzyl group, 4-(5-phenylpentyloxy)-
 - 20 benzyl group, 2-(6-phenylhexyloxy)benzyl group, 3-(6-phenylhexyloxy)benzyl group, 4-(6-phenylhexyloxy)benzyl group, 2-methylbenzyl group, 2,3-dimethylbenzyl group, 3,4-dimethylbenzyl group, 3, 5-dimethylbenzyl group, 2,6-dimethylbenzyl group, 2,4-dimethylbenzyl group, 2,5-
 - 25 dimethylbenzyl group, 2,4,6-trimethylbenzyl group, 3,5-ditrifluoromethylbenzyl group, 2,4,6-trifluoromethylbenzyl group, 2-trifluoromethylbenzyl group, 3-trifluoromethylbenzyl group, 4-trifluoromethylbenzyl

group, 2-trifluoromethoxybenzyl group, 3-trifluoro-
 methoxybenzyl group, 4-trifluoromethoxybenzyl group, 3-
 methoxybenzyl group, 2,3-dimethoxybenzyl group, 3,4-
 dimethoxybenzyl group, 3,5-dimethoxybenzyl group, 2,6-
 5 dimethoxybenzyl group, 2,4-dimethoxybenzyl group, 2,5-
 dimethoxybenzyl group, 2,4,6-trimethoxybenzyl group,
 2,6-ditrifluoromethoxybenzyl group, 2,3,4-trifluoro-
 methoxybenzyl group, 1-(4-benzyloxyphenyl)ethyl group,
 1-(3-benzyloxyphenyl)ethyl group, 1-(2-benzyloxy-
 10 phenyl)ethyl group, 1-(2-trifluoromethylphenyl)ethyl
 group, 1-(3-trifluoromethylphenyl)ethyl group, 1-(4-
 trifluoromethylphenyl)ethyl group, 1-(2-trifluoro-
 methoxyphenyl)ethyl group, 1-(3-trifluoromethoxy-
 phenyl)ethyl group, 1-(4-trifluoromethoxyphenyl)ethyl
 15 group, 2-(4-benzyloxyphenyl)ethyl group, 2-(3-
 benzyloxyphenyl)ethyl group, 2-(2-benzyloxyphenyl)ethyl
 group, 2-(2-trifluoromethylphenyl)ethyl group, 2-(3-
 trifluoromethylphenyl)ethyl group, 2-(4-trifluoro-
 methylphenyl)ethyl group, 2-(2-trifluoromethoxy-
 20 phenyl)ethyl group, 2-(3-trifluoromethoxyphenyl)ethyl
 group, 2-(4-trifluoromethoxyphenyl)ethyl group, 3-(4-
 benzyloxyphenyl)propyl group, 3-(3-benzyloxyphenyl)-
 propyl group, 3-(2-benzyloxyphenyl)propyl group, 3-(2-
 trifluoromethylphenyl)propyl group, 3-(3-trifluoro-
 25 methylphenyl)propyl group, 3-(4-trifluoromethyl-
 phenyl)propyl group, 3-(2-trifluoromethylphenyl)propyl
 group, 3-(3-trifluoromethoxyphenyl)propyl group, 3-(4-
 trifluoromethoxyphenyl)propyl group, 4-(3-trifluoro-

methylphenyl)butyl group, 5-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethoxyphenyl)pentyl group, 6-(3-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethoxyphenyl)hexyl group, 2-trifluoromethyl-3-trifluoromethoxybenzyl group, 2-benzyloxy-3-trifluoromethoxybenzyl group, 3-phenoxy-4-trifluoromethylbenzyl group or the like.

10 A biphenylyl C1-6 alkoxy carbonyl group includes, for example, a 2-biphenylylmethoxy carbonyl group, 2-(2-biphenylyl)ethoxy carbonyl group, 3-(2-biphenylyl)propoxy carbonyl group, 4-(2-biphenylyl)butoxy carbonyl group, 5-(2-biphenylyl)pentoxy carbonyl group, 6-(2-biphenylyl)hexyloxy carbonyl group, 3-biphenylylmethoxy carbonyl group, 2-(3-biphenylyl)ethoxy carbonyl group, 3-(3-biphenylyl)propoxy carbonyl group, 4-(3-biphenylyl)butoxy carbonyl group, 5-(3-biphenylyl)pentoxy carbonyl group, 6-(3-biphenylyl)hexyloxy carbonyl group, 4-biphenylylmethoxy carbonyl group, 2-(4-biphenylyl)ethoxy carbonyl group, 3-(4-biphenylyl)propoxy carbonyl group, 4-(4-biphenylyl)butoxy carbonyl group, 5-(4-biphenylyl)pentoxy carbonyl group, 6-(4-biphenylyl)hexyloxy carbonyl group or the like.

25

Examples of a benzoxazolyl C1-6 alkyl group (which may be substituted on the benzoxazole ring by at least one oxo group as a substituent) include, for

example, a benzoxazol-2-ylmethyl group, benzoxazol-4-ylmethyl group, benzoxazol-5-ylmethyl group, benzoxazol-6-ylmethyl group, benzoxazol-7-ylmethyl group, 2-(benzoxazol-4-yl)ethyl group, 1-(benzoxazol-5-yl)ethyl group, 3-(benzoxazol-6-yl)propyl group, 4-(benzoxazol-7-yl)butyl group, 5-(benzoxazol-2-yl)pentyl group, 6-(benzoxazol-4-yl)hexyl group, 2-methyl-3-(benzoxazol-5-yl)propyl group, 1,1-dimethyl-2-(benzoxazol-2-yl)ethyl group, (2,3-dihydro-2-oxo-benzoxazol-3-yl)methyl group, (2,3-dihydro-2-oxo-benzoxazol-4-yl)methyl group, (2,3-dihydro-2-oxo-benzoxazol-5-yl)methyl group, (2,3-dihydro-2-oxo-benzoxazol-6-yl)methyl group, (2,3-dihydro-2-oxo-benzoxazol-7-yl)methyl group, 2-(benzoxazol-6-yl)ethyl group, 2-(benzoxazol-7-yl)ethyl group, 2-(2,3-dihydro-2-oxo-benzoxazol-3-yl)ethyl group, 2-(2,3-dihydro-2-oxo-benzoxazol-4-yl)ethyl group, 2-(2,3-dihydro-2-oxo-benzoxazol-5-yl)ethyl group, 2-(2,3-dihydro-2-oxo-benzoxazol-6-yl)ethyl group, 2-(2,3-dihydro-2-oxo-benzoxazol-7-yl)ethyl group, 3-(benzoxazol-2-yl)propyl group, 3-(benzoxazol-4-yl)propyl group, 3-(benzoxazol-5-yl)propyl group, 3-(benzoxazol-7-yl)propyl group, 3-(2,3-dihydro-2-oxo-benzoxazol-3-yl)propyl group, 3-(2,3-dihydro-2-oxo-benzoxazol-4-yl)propyl group, 3-(2,3-dihydro-2-oxo-benzoxazol-5-yl)propyl group, 3-(2,3-dihydro-2-oxo-benzoxazol-6-yl)propyl group, 3-(2,3-dihydro-2-oxo-benzoxazol-7-yl)propyl group, 4-(benzoxazol-2-yl)butyl group, 4-(benzoxazol-4-yl)butyl

- group, 4-(benzoxazol-5-yl)butyl group, 4-(benzoxazol-6-yl)butyl group, 4-(2,3-dihydro-2-oxo-benzoxazol-3-yl)butyl group, 4-(2,3-dihydro-2-oxo-benzoxazol-4-yl)butyl group, 4-(2,3-dihydro-2-oxo-benzoxazol-5-yl)butyl group, 4-(2,3-dihydro-2-oxo-benzoxazol-6-yl)butyl group, 4-(2,3-dihydro-2-oxo-benzoxazol-7-yl)butyl group, 5-(benzoxazol-4-yl)pentyl group, 5-(benzoxazol-5-yl)pentyl group, 5-(benzoxazol-6-yl)pentyl group, 5-(benzoxazol-7-yl)pentyl group, 5-(2,3-dihydro-2-oxo-benzoxazol-3-yl)pentyl group, 5-(2,3-dihydro-2-oxo-benzoxazol-4-yl)pentyl group, 5-(2,3-dihydro-2-oxo-benzoxazol-5-yl)pentyl group, 5-(2,3-dihydro-2-oxo-benzoxazol-6-yl)pentyl group, 5-(2,3-dihydro-2-oxo-benzoxazol-7-yl)pentyl group, 6-(benzoxazol-2-yl)hexyl group, 6-(benzoxazol-5-yl)hexyl group, 6-(benzoxazol-6-yl)hexyl group, 6-(benzoxazol-7-yl)hexyl group, 6-(2,3-dihydro-2-oxo-benzoxazol-3-yl)hexyl group, 6-(2,3-dihydro-2-oxo-benzoxazol-4-yl)hexyl group, 6-(2,3-dihydro-2-oxo-benzoxazol-5-yl)hexyl group, 6-(2,3-dihydro-2-oxo-benzoxazol-6-yl)hexyl group, 6-(2,3-dihydro-2-oxo-benzoxazol-7-yl)hexyl group or the like.

A benzoxazolyl group includes, for example, a benzoxazol-2-yl group, benzoxazol-4-yl group, benzoxazol-5-yl group, benzoxazol-6-yl group, benzoxazol-7-yl group or the like.

Examples of an oxazolyl C1-6 alkyl group (which may be substituted on the oxazole ring by at

least one group selected from a group consisting of a phenyl group and a C1-6 alkyl group as a substituent) include an oxazolyl C1-6 alkyl group (which may be substituted on the oxazole ring by 1 to 3 groups

- 5 selected from a group consisting of a phenyl group and a C1-6 alkyl group as a substituent), for example, an oxazol-2-ylmethyl group, oxazol-4-ylmethyl group, oxazol-5-ylmethyl group, 2-(oxazol-2-yl)ethyl group, 1-(oxazol-4-yl)ethyl group, 3-(oxazol-5-yl)propyl group,
- 10 4-(oxazol-2-yl)butyl group, 5-(oxazol-4-yl)pentyl group, 6-(oxazol-5-yl)hexyl group, 2-methyl-3-(oxazol-2-yl)propyl group, 1,1-dimethyl-2-(oxazol-5-yl)ethyl group, (4-methyloxazol-2-yl)methyl group, (5-methyloxazol-2-yl)methyl group, (4-ethyloxazol-2-
- 15 yl)methyl group, (5-ethyloxazol-2-yl)methyl group, (4-n-propyloxazol-2-yl)methyl group, (5-n-propyloxazol-2-yl)methyl group, (4-n-butyloxazol-2-yl)methyl group, (5-n-butyloxazol-2-yl)methyl group, (4-n-pentyloxazol-
- 20 2-yl)methyl group, (5-n-pentyloxazol-2-yl)methyl group, (4-n-hexyloxazol-2-yl)methyl group, (5-n-hexyloxazol-2-yl)methyl group, 2-(oxazol-4-yl)ethyl group, 2-(oxazol-5-yl)ethyl group, 2-(4-methyloxazol-2-yl)ethyl group, 2-(5-methyloxazol-2-yl)ethyl group, 2-(4-ethyloxazol-2-
- 25 yl)ethyl group, 2-(5-ethyloxazol-2-yl)ethyl group, 2-(4-n-propyloxazol-2-yl)ethyl group, 2-(5-n-propyloxazol-2-yl)ethyl group, 2-(4-n-butyloxazol-2-yl)ethyl group, 2-(5-n-butyloxazol-2-yl)ethyl group, 2-
- (4-n-pentyloxazol-2-yl)ethyl group, 2-(5-n-

- pentyloxazol-2-yl)ethyl group, 2-(4-n-hexyloxazol-2-yl)ethyl group, 2-(5-n-hexyloxazol-2-yl)ethyl group, 3-(oxazol-2-yl)propyl group, 3-(oxazol-4-yl)propyl group, 3-(4-methyloxazol-2-yl)propyl group, 3-(5-methyloxazol-2-yl)propyl group, 3-(4-ethyloxazol-2-yl)propyl group, 3-(5-ethyloxazol-2-yl)propyl group, 3-(4-n-propyloxazol-2-yl)propyl group, 3-(5-n-propyloxazol-2-yl)propyl group, 3-(4-n-butyloxazol-2-yl)propyl group, 3-(5-n-butyloxazol-2-yl)propyl group, 3-(4-n-pentyloxazol-2-yl)propyl group, 3-(5-n-pentyloxazol-2-yl)propyl group, 3-(4-n-hexyloxazol-2-yl)propyl group, 3-(5-n-hexyloxazol-2-yl)propyl group, 4-(oxazol-4-yl)butyl group, 4-(oxazol-5-yl)butyl group, 4-(4-methyloxazol-2-yl)butyl group, 4-(5-methyloxazol-2-yl)butyl group, 4-(4-ethyloxazol-2-yl)butyl group, 4-(5-ethyloxazol-2-yl)butyl group, 4-(4-n-propyloxazol-2-yl)butyl group, 4-(5-n-propyloxazol-2-yl)butyl group, 4-(4-n-butyloxazol-2-yl)butyl group, 4-(5-n-butyloxazol-2-yl)butyl group, 4-(4-n-pentyloxazol-2-yl)butyl group, 4-(5-n-pentyloxazol-2-yl)butyl group, 4-(4-n-hexyloxazol-2-yl)butyl group, 4-(5-n-hexyloxazol-2-yl)butyl group, 5-(oxazol-2-yl)pentyl group, 5-(oxazol-5-yl)pentyl group, 6-(oxazol-2-yl)hexyl group, 6-(oxazol-4-yl)hexyl group, (5-phenyloxazol-2-yl)methyl group, (2-phenyloxazol-4-yl)methyl group, (2-phenyloxazol-5-yl)methyl group, 2-(5-phenyloxazol-2-yl)ethyl group, 2-(2-phenyloxazol-4-yl)ethyl group, 2-(2-phenyloxazol-5-yl)ethyl group, 3-

(5-phenyloxazol-2-yl)propyl group, 3-(2-phenyloxazol-4-yl)propyl group, 3-(2-phenyloxazol-5-yl)propyl group, 4-(5-phenyloxazol-2-yl)butyl group, 4-(2-phenyloxazol-4-yl)butyl group, 4-(2-phenyloxazol-5-yl)butyl group, 5 5-(5-phenyloxazol-2-yl)pentyl group, 5-(2-phenyloxazol-4-yl)pentyl group, 5-(2-phenyloxazol-5-yl)pentyl group, (2-phenyl-4-methyloxazol-5-yl)methyl group, (2,4-dimethyloxazol-5-yl)methyl group, (2,5-diphenyloxazol-4-yl)methyl group or the like.

10 Examples of a tetrazolyl group (which may be substituted on the tetrazole ring by a phenyl group which may have C1-6 alkyl group(s) or halogen atom(s) as a substituent) include a tetrazolyl group (which may be substituted on the tetrazole ring by a phenyl group 15 which may have 1 to 3 C1-6 alkyl groups or halogen atoms as substituent(s)), for example, a 5-(1H)-tetrazolyl group, 1-methyl-5-(1H)-tetrazolyl group, 1-ethyl-5-(1H)-tetrazolyl group, 1-n-propyl-5-(1H)-tetrazolyl group, 1-isopropyl-5-(1H)-tetrazolyl group, 20 1-n-butyl-5-(1H)-tetrazolyl group, 1-(2-methylpropyl)-5-(1H)-tetrazolyl group, 1-n-pentyl-5-(1H)-tetrazolyl group, 1-n-hexyl-5-(1H)-tetrazolyl group, 1-phenyl-5-(1H)-tetrazolyl group, 1-(4-chlorophenyl)-5-(1H)-tetrazolyl group, 1-(4-fluorophenyl)-5-(1H)-tetrazolyl 25 group, 1-(4-bromophenyl)-5-(1H)-tetrazolyl group, 1-(3,4-difluorophenyl)-5-(1H)-tetrazolyl group, 1-(3,4-dichlorophenyl)-5-(1H)-tetrazolyl group, 1-(3,4,5-trichlorophenyl)-5-(1H)-tetrazolyl group or the like.

A C1-8 alkyl group is a straight or branched alkyl group containing 1 to 8 carbon atoms, examples of which include a methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, 5 tert-butyl group, sec-group, n-pentyl group, neopentyl group, n-hexyl group, isohexyl group, 3-methylpentyl group, n-heptyl group, 6-methylheptyl group, n-octyl group, 3,5-dimethylhexyl group or the like.

Examples of a C1-6 alkyl group substituted by 10 halogen atom(s) include a C1-6 alkyl group substituted by 1 to 7 halogens, for example, a fluoromethyl group, difluoromethyl group, trifluoromethyl group, chloromethyl group, dichloromethyl group, trichloromethyl group, bromomethyl group, dibromomethyl group, 15 dichlorofluoromethyl group, 2,2,2-trifluoroethyl group, pentafluoroethyl group, 2-chloroethyl group, 3,3,3-trifluoropropyl group, heptafluoropropyl group, heptafluoroisopropyl group, 3-chloropropyl group, 2-chloropropyl group, 3-bromopropyl group, 4,4,4- 20 trifluorobutyl group, 4,4,4,3,3-pentafluorobutyl group, 4-chlorobutyl group, 4-bromobutyl group, 2-chlorobutyl group, 5,5,5-trifluoropentyl group, 5-chloropentyl group, 6,6,6-trifluorohexyl group, 6-chlorohexyl group or the like.

25 A C1-6 alkoxycarbonyl-C1-6 alkyl group is a C1-6 alkyl group defined above substituted by the C1-6 alkoxycarbonyl group defined above, examples of which include a methoxycarbonylmethyl group, ethoxycarbonyl-

methyl group, propoxycarbonylmethyl group, isopropoxy-
 carbonylmethyl group, n-butoxycarbonylmethyl group,
 tert-butoxycarbonylmethyl group, pentoxycarbonylmethyl
 group, n-hexyloxycarbonylmethyl group, 2-(methoxy-
 5 carbonyl)ethyl group, 2-(ethoxycarbonyl)ethyl group, 2-
 (1-propoxycarbonyl)ethyl group, 2-(isopropoxycarbonyl)-
 ethyl group, 2-(n-butoxycarbonyl)ethyl group, 2-(tert-
 butoxycarbonyl)ethyl group, 2-(2-pentoxycarbonyl)ethyl
 group, 2-(n-hexyloxycarbonyl)ethyl group, 3-(methoxy-
 10 carbonyl)propyl group, 3-(ethoxycarbonyl)propyl group,
 3-(1-propoxycarbonyl)propyl group, 3-(isopropoxy-
 carbonyl)propyl group, 3-(n-butoxycarbonyl)propyl
 group, 3-(tert-butoxycarbonyl)propyl group, 3-(3-
 pentoxycarbonyl)propyl group, 3-(n-hexyloxycarbonyl)-
 15 propyl group, 4-(methoxycarbonyl)butyl group, 4-
 (ethoxycarbonyl)butyl group, 4-(1-propoxycarbonyl)butyl
 group, 4-(isopropoxycarbonyl)butyl group, 4-(n-
 butoxycarbonyl)butyl group, 4-(tert-butoxycarbonyl)-
 butyl group, 5-(methoxycarbonyl)pentyl group, 5-
 20 (ethoxycarbonyl)pentyl group, 5-(propoxycarbonyl)pentyl
 group, 5-(isopropoxycarbonyl)pentyl group, 5-(n-
 butoxycarbonyl)pentyl group, 5-(tert-butoxycarbonyl)-
 pentyl group, 6-(methoxycarbonyl)hexyl group, 6-
 (ethoxycarbonyl)hexyl group, 6-(propoxycarbonyl)hexyl
 25 group, 6-(isopropoxycarbonyl)hexyl group, 6-(n-
 butoxycarbonyl)hexyl group, 6-(tert-butoxycarbonyl)-
 hexyl group or the like.

A C3-8 cycloalkyl group is a 3-membered, 4-

membered, 5-membered, 6-membered, 7-membered or 8-membered cyclic alkyl group containing 3 to 8 carbon atoms, examples of which include a cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, 5 cycloheptyl group, cyclooctyl group, 3,4-dimethylcyclopentyl group, 3,3-dimethylcyclohexyl group or the like.

A phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a 10 halogen-substituted or unsubstituted C1-6 alkyl group or a halogen-substituted or unsubstituted C1-6 alkoxy group) is a phenyl C1-6 alkyl group unsubstituted or substituted on the phenyl ring by 1 to 5 groups, preferably 1 to 3 groups selected from a group 15 consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group, examples of which include a benzyl group, 1-phenethyl group, 2-phenethyl group, 3-phenylpropyl group, 2- 20 phenylpropyl group, 4-phenylbutyl group, 5-phenylpentyl group, 4-phenylpentyl group, 6-phenylhexyl group, 2-fluorobenzyl group, 3-fluorobenzyl group, 4-fluorobenzyl group, 2-chlorobenzyl group, 3-chlorobenzyl group, 4-chlorobenzyl group, 2-bromobenzyl group, 3- 25 bromobenzyl group, 4-bromobenzyl group, 2-iodobenzyl group, 3-iodobenzyl group, 4-iodobenzyl group, 2,3-difluorobenzyl group, 3,4-difluorobenzyl group, 3,5-difluorobenzyl group, 2,4-difluorobenzyl group, 2,6-

- difluorobenzyl group, 2,3-dichlorobenzyl group, 3,4-dichlorobenzyl group, 3,5-dichlorobenzyl group, 2,4-dichlorobenzyl group, 2,6-dichlorobenzyl group, 2-fluoro-4-bromobenzyl group, 4-chloro-3-fluorobenzyl
- 5 group, 2,3,4-trichlorobenzyl group, 3,4,5-trifluorobenzyl group, 2,4,6-trichlorobenzyl group, 4-isopropylbenzyl group, 4-n-butylbenzyl group, 4-methylbenzyl group, 2-methylbenzyl group, 3-methylbenzyl group, 2,4-dimethylbenzyl group, 2,3-
- 10 dimethylbenzyl group, 2,6-dimethylbenzyl group, 3,5-dimethylbenzyl group, 2,5-dimethylbenzyl group, 2,4,6-trimethylbenzyl group, 3,5-ditrifluoromethylbenzyl group, 2,3,4,5,6-pentafluorobenzyl group, 4-isopropoxybenzyl group, 4-n-butoxybenzyl group, 4-
- 15 methoxybenzyl group, 2-methoxybenzyl group, 3-methoxybenzyl group, 2,4-dimethoxybenzyl group, 2,3-dimethoxybenzyl group, 2,6-dimethoxybenzyl group, 3,5-dimethoxybenzyl group, 2,5-dimethoxybenzyl group, 2,4,6-trimethoxybenzyl group, 3,5-ditrifluoro-
- 20 methoxybenzyl group, 2-isopropoxybenzyl group, 3-chloro-4-methoxybenzyl group, 2-chloro-4-trifluoromethoxybenzyl group, 3-methyl-4-fluorobenzyl group, 4-bromo-3-trifluoromethylbenzyl group, 2-trifluoromethylbenzyl group, 3-trifluoromethylbenzyl group, 4-
- 25 trifluoromethylbenzyl group, 2-pentafluoroethylbenzyl group, 3-pentafluoroethylbenzyl group, 4-pentafluoroethylbenzyl group, 2-trifluoromethoxybenzyl group, 3-trifluoromethoxybenzyl group, 4-trifluoromethoxybenzyl

group, 2-pentafluoroethoxybenzyl group, 3-pentafluoroethoxybenzyl group, 4-pentafluoroethoxybenzyl group, 2-(2-trifluoromethylphenyl)ethyl group, 2-(3-trifluoromethylphenyl)ethyl group, 2-(4-trifluoromethylphenyl)-
 5 ethyl group, 2-(2-trifluoromethoxyphenyl)ethyl group, 3-(trifluoromethoxyphenyl)ethyl group, 2-(4-trifluoromethoxyphenyl)ethyl group, 2-(2-pentafluoroethoxyphenyl)ethyl group, 2-(3-pentafluoroethoxyphenyl)ethyl group, 2-(4-pentafluoroethoxyphenyl)ethyl group, 3-(2-trifluoromethylphenyl)propyl group, 3-(3-trifluoro-
 10 methylphenyl)propyl group, 3-(4-trifluoromethylphenyl)-propyl group, 3-(2-trifluoromethoxyphenyl)propyl group, 3-(3-trifluoromethoxyphenyl)propyl group, 3-(4-trifluoromethoxyphenyl)propyl group, 3-(3-pentafluoroethoxyphenyl)propyl group, 3-(4-pentafluoroethoxy-
 15 phenyl)propyl group, 4-(3-pentafluoroethoxyphenyl)butyl group, 5-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethoxyphenyl)pentyl group, 6-(3-trifluoromethyl-
 20 phenyl)hexyl group, 6-(4-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethoxyphenyl)hexyl group or the like.

A phenyl group (which may be substituted on the phenyl ring by 1 to 3 groups selected from a group
 25 consisting of halogen atom(s), a C1-6 alkyl group substituted or unsubstituted with halogen atom(s), halogen-substituted or unsubstituted C1-6 alkoxy group, C1-6 alkanoyl group, carboxyl group, C1-6

- alkoxycarbonyl group, phenyl C1-6 alkoxycarbonyl group, carbamoyl group, C1-6 alkylcarbamoyl group, aminosulfonyl group and morpholino group) includes, for example, a phenyl group, 2-fluorophenyl group, 3-
- 5 fluorophenyl group, 4-fluorophenyl group, 2-chlorophenyl group, 3-chlorophenyl group, 4-chlorophenyl group, 2-bromophenyl group, 3-bromophenyl group, 4-bromophenyl group, 2-iodophenyl group, 3-
- 10 iodophenyl group, 4-iodophenyl group, 2,3-difluorophenyl group, 3,4-difluorophenyl group, 3,5-difluorophenyl group, 2,4-difluorophenyl group, 2,6-difluorophenyl group, 2,3-dichlorophenyl group, 3,4-dichlorophenyl group, 3,5-dichlorophenyl group, 2,4-dichlorophenyl group, 2,6-dichlorophenyl group, 3,4,5-
- 15 trifluorophenyl group, 3,4,5-trichlorophenyl group, 2,4,6-trifluorophenyl group, 2,4,6-trichlorophenyl group, 2-fluoro-4-bromophenyl group, 4-chloro-3-fluorophenyl group, 2,3,4-trichlorophenyl group, 4-isopropylphenyl group, 4-n-butylphenyl group, 2,4-
- 20 dimethylphenyl group, 2,3-dimethylphenyl group, 2,6-dimethylphenyl group, 3,5-dimethylphenyl group, 2,5-dimethylphenyl group, 2,4,6-trimethylphenyl group, 3,5-ditrifluoromethylphenyl group, 4-n-butoxyphenyl group, 2,4-dimethoxyphenyl group, 2,3-dimethoxyphenyl group,
- 25 2,6-dimethoxyphenyl group, 3,5-dimethoxyphenyl group, 2,5-dimethoxyphenyl group, 3,5-ditrifluoromethoxyphenyl group, 3-chloro-4-methoxyphenyl group, 2-chloro-4-trifluoromethoxyphenyl group, 3-methyl-4-fluorophenyl

- group, 4-bromo-3-trifluoromethylphenyl group, 2-methylphenyl group, 3-methylphenyl group, 4-methylphenyl group, 2-trifluoromethylphenyl group, 3-trifluoromethylphenyl group, 4-trifluoromethylphenyl
- 5 group, 2-pentafluoroethylphenyl group, 3-pentafluoroethylphenyl group, 4-pentafluoroethylphenyl group, 2-isopropylphenyl group, 3-isopropylphenyl group, 2-tert-butylphenyl group, 3-tert-butylphenyl group, 4-tert-butylphenyl group, 2-sec-butylphenyl group, 3-sec-
- 10 butylphenyl group, 4-sec-butylphenyl group, 2-n-heptafluoropropylphenyl group, 3-n-heptafluoropropylphenyl group, 4-n-heptafluoropropylphenyl group, 4-n-pentylphenyl group, 4-n-hexylphenyl group, 2-methoxyphenyl group, 3-
- 15 methoxyphenyl group, 4-methoxyphenyl group, 2,3-dimethoxyphenyl group, 3-fluoro-2-methoxyphenyl group, 2-fluoro-3-methoxyphenyl group, 2-chloro-4-methoxyphenyl group, 2,3,4-trimethoxyphenyl group, 3,4,5-trimethoxyphenyl group, 2,4,6-trimethoxyphenyl group,
- 20 2-trifluoromethoxyphenyl group, 3-trifluoromethoxyphenyl group, 4-trifluoromethoxyphenyl group, 2-pentafluoroethoxyphenyl group, 3-pentafluoroethoxyphenyl group, 4-pentafluoroethoxyphenyl group, 2-isopropoxyphenyl group, 3-isopropoxyphenyl group, 4-
- 25 isopropoxyphenyl group, 2-tert-butoxyphenyl group, 3-tert-butoxyphenyl group, 4-tert-butoxyphenyl group, 2-sec-butoxyphenyl group, 3-sec-butoxyphenyl group, 4-sec-butoxyphenyl group, 2-n-heptafluoropropoxyphenyl

- group, 3-n-heptafluoropropoxyphenyl group, 4-n-heptafluoropropoxyphenyl group, 4-pentoxyphenyl group, 4-hexyloxyphenyl group, 2-formylphenyl group, 3-formylphenyl group, 4-formylphenyl group, 2-acetylphenyl group, 3-acetylphenyl group, 4-acetylphenyl group, 2-propionylphenyl group, 3-propionylphenyl group, 4-propionylphenyl group, 2-butyrylphenyl group, 3-butyrylphenyl group, 4-butyrylphenyl group, 2-pentanoylphenyl group, 3-pentanoylphenyl group, 4-pentanoylphenyl group, 2-hexanoylphenyl group, 3-hexanoylphenyl group, 4-hexanoylphenyl group, 2-methoxycarbonylphenyl group, 3-methoxycarbonylphenyl group, 4-methoxycarbonylphenyl group, 2-ethoxycarbonylphenyl group, 3-ethoxycarbonylphenyl group, 4-ethoxycarbonylphenyl group, 2-propoxycarbonylphenyl group, 3-propoxycarbonylphenyl group, 4-propoxycarbonylphenyl group, 2-butoxycarbonylphenyl group, 3-butoxycarbonylphenyl group, 4-butoxycarbonylphenyl group, 2-tert-butoxycarbonylphenyl group, 3-tert-butoxycarbonylphenyl group, 4-tert-butoxycarbonylphenyl group, 2-pentoxycarbonylphenyl group, 3-pentoxycarbonylphenyl group, 4-pentoxycarbonylphenyl group, 2-hexyloxycarbonylphenyl group, 3-hexyloxycarbonylphenyl group, 4-hexyloxycarbonylphenyl group, 2-benzyloxy-carbonylphenyl group, 3-benzyloxycarbonylphenyl group, 4-benzyloxycarbonylphenyl group, 2-carboxylphenyl group, 3-carboxylphenyl group, 4-carboxylphenyl group, 2-aminosulfonylphenyl group, 3-aminosulfonylphenyl

group, 4-aminosulfonylphenyl group, 2-carbamoylphenyl group, 3-carbamoylphenyl group, 4-carbamoylphenyl group, 2-methylcarbamoylphenyl group, 3-methylcarbamoylphenyl group, 4-methylcarbamoylphenyl group, 2-ethylcarbamoylphenyl group, 3-ethylcarbamoylphenyl group, 4-ethylcarbamoylphenyl group, 2-dimethylcarbamoylphenyl group, 3-dimethylcarbamoylphenyl group, 4-dimethylcarbamoylphenyl group, 2-diethylcarbamoylphenyl group, 3-diethylcarbamoylphenyl group, 4-diethylcarbamoylphenyl group, 4-morpholinophenyl group, 3-morpholinophenyl group, 4-morpholinophenyl group or the like.

A C1-6 alkyl carbamoyl group is a group in which one or two hydrogens on the carbamoyl ($-\text{CONH}_2$) group are substituted by the C1-6 alkyl group defined above, examples of which include an N-methylcarbamoyl group, N, N-dimethylcarbamoyl group, N-ethylcarbamoyl group, N-n-propylcarbamoyl group, N-isopropylcarbamoyl group, N-n-butylcarbamoyl group, N-tert-butylcarbamoyl group, N-n-pentylcarbamoyl group, N-n-hexylcarbamoyl group, N-methyl-N-ethylcarbamoyl group, N-methyl-N-n-propylcarbamoyl group, N-methyl-N-isopropylcarbamoyl group, N-methyl-N-n-butylcarbamoyl group, N-methyl-N-tert-butylcarbamoyl group, N-methyl-N-n-pentylcarbamoyl group, N-methyl-N-n-hexylcarbamoyl group, N-ethyl-N-isopropylcarbamoyl group, N-ethyl-N-tert-butylcarbamoyl group, N-propyl-N-tert-butylcarbamoyl group, N-isopropyl-N-tert-butylcarbamoyl group or the like.

A phenyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group) is a phenyl group unsubstituted or substituted by 1 to 5, preferably 1 to 3 substituents selected from a group consisting of halogen(s), a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group as defined above, examples of which include a phenyl group, 2-fluorophenyl group, 3-fluorophenyl group, 4-fluorophenyl group, 2-chlorophenyl group, 3-chlorophenyl group, 4-chlorophenyl group, 2-bromophenyl group, 3-bromophenyl group, 4-bromophenyl group, 2-iodophenyl group, 3-iodophenyl group, 4-iodophenyl group, 2,3-difluorophenyl group, 3,4-difluorophenyl group, 3,5-difluorophenyl group, 2,4-difluorophenyl group, 2,6-difluorophenyl group, 2,3-dichlorophenyl group, 3,4-dichlorophenyl group, 3,5-dichlorophenyl group, 2,4-dichlorophenyl group, 2,6-dichlorophenyl group, 3,4,5-trifluorophenyl group, 3,4,5-trichlorophenyl group, 2,4,6-trifluorophenyl group, 2,4,6-trichlorophenyl group, 2-fluoro-4-bromophenyl group, 4-chloro-3-fluorophenyl group, 2,3,4-trichlorophenyl group, 2,3,4-trifluorophenyl group, 2,3,4,5,6-pentafluorophenyl group, 2,4,6-trimethylphenyl group, 4-n-butylphenyl group, 2,4-

- dimethylphenyl group, 2,3-dimethylphenyl group, 2,6-dimethylphenyl group, 3,5-dimethylphenyl group, 2,5-dimethylphenyl group, 3,5-ditrifluoromethylphenyl group, 4-n-butoxyphenyl group, 2,4-dimethoxyphenyl
- 5 group, 2,3-dimethoxyphenyl group, 2,6-dimethoxyphenyl group, 3,5-dimethoxyphenyl group, 2,5-dimethoxyphenyl group, 2,4,6-trimethoxyphenyl group, 3,5-ditrifluoromethoxyphenyl group, 3-chloro-4-methoxyphenyl group, 2-chloro-4-trifluoromethoxyphenyl
- 10 group, 3-methyl-4-fluorophenyl group, 4-bromo-3-trifluoromethylphenyl group, 2-methylphenyl group, 3-methylphenyl group, 4-methylphenyl group, 2-methyl-3-chlorophenyl group, 3-methyl-4-chlorophenyl group, 2-chloro-4-methylphenyl group, 2-methyl-3-fluorophenyl
- 15 group, 2-trifluoromethylphenyl group, 3-trifluoromethylphenyl group, 4-trifluoromethylphenyl group, 2-pentafluoroethylphenyl group, 3-pentafluoroethylphenyl group, 4-pentafluoroethylphenyl group, 2-isopropylphenyl group, 3-isopropylphenyl group, 4-
- 20 isopropylphenyl group, 2-tert-butylphenyl group, 3-tert-butylphenyl group, 4-tert-butylphenyl group, 2-sec-butylphenyl group, 3-sec-butylphenyl group, 4-sec-butylphenyl group, 2-n-heptafluoropropylphenyl group, 3-n-heptafluoropropylphenyl group, 4-n-heptafluoro-
- 25 propylphenyl group, 4-pentylphenyl group, 4-hexylphenyl group, 2-methoxyphenyl group, 3-methoxyphenyl group, 4-methoxyphenyl group, 3-chloro-2-methoxyphenyl group, 2-fluoro-3-methoxyphenyl group, 2-fluoro-4-methoxyphenyl

group, 3,4-dimethoxyphenyl group, 2-trifluoromethoxyphenyl group, 3-trifluoromethoxyphenyl group, 4-trifluoromethoxyphenyl group, 3-fluoro-2-trifluoromethoxyphenyl group, 2-fluoro-3-trifluoromethoxyphenyl group, 3-fluoro-4-trifluoromethoxyphenyl group, 3-chloro-2-trifluoromethoxyphenyl group, 2-chloro-3-trifluoromethoxyphenyl group, 3-chloro-4-trifluoromethoxyphenyl group, 2-pentafluoroethoxyphenyl group, 3-pentafluoroethoxyphenyl group, 4-pentafluoroethoxyphenyl group, 3-chloro-2-pentafluoroethoxyphenyl group, 2-chloro-3-pentafluoroethoxyphenyl group, 3-chloro-4-pentafluoroethoxyphenyl group, 2-isopropoxyphenyl group, 3-isopropoxyphenyl group, 4-isopropoxyphenyl group, 2-tert-butoxyphenyl group, 3-tert-butoxyphenyl group, 4-tert-butoxyphenyl group, 2-sec-butoxyphenyl group, 3-sec-butoxyphenyl group, 4-sec-butoxyphenyl group, 2-n-heptafluoropropoxyphenyl group, 3-n-heptafluoropropoxyphenyl group, 4-n-heptafluoropropoxyphenyl group, 4-n-pentoxyphe-
 20 hexyloxyphenyl group or the like.

A phenyl C1-6 alkoxycarbonyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of halogen atom(s), a halogen-substituted or a unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group) is a group containing a phenyl C1-6 alkoxy group which may be substituted by 1 to 5, preferably 1 to 3 groups selected from a group consisting of halogen(s),

a halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group defined above and a carbonyl group, examples of which include a benzyloxycarbonyl group, 2-

- 5 phenylethoxycarbonyl group, 3-phenylpropoxycarbonyl group, 2-phenylpropoxycarbonyl group, 4-phenylbutoxycarbonyl group, 5-phenylpentoxycarbonyl group, 4-phenylpentoxycarbonyl group, 6-phenylhexyloxycarbonyl group, 2-fluorobenzyloxycarbonyl group, 3-
- 10 fluorobenzyloxycarbonyl group, 4-fluorobenzyloxy-carbonyl group, 2-(2-fluorophenyl)ethoxycarbonyl group, 2-(3-fluorophenyl)ethoxycarbonyl group, 2-(4-fluorophenyl)ethoxycarbonyl group, 2-chlorobenzyloxy-carbonyl group, 3-chlorobenzyloxycarbonyl group, 4-
- 15 chlorobenzyloxycarbonyl group, 2-fluoro-4-bromobenzyloxycarbonyl group, 4-chloro-3-fluoro-benzyloxycarbonyl group, 2,3,4-trichlorobenzyloxy-carbonyl group, 3,4,5-trifluorobenzyloxycarbonyl group, 2,3,4,5,6-pentafluorobenzyloxycarbonyl group, 2,4,6-
- 20 trichlorobenzyloxycarbonyl group, 4-isopropoxybenzyloxycarbonyl group, 4-n-butylbenzyloxy-carbonyl group, 4-methybenzyloxycarbonyl group, 2-methybenzyloxycarbonyl group, 3-methybenzyloxycarbonyl group, 2,4-dimethybenzyloxycarbonyl group, 2,3-
- 25 dimethybenzyloxycarbonyl group, 2,6-dimethybenzyloxy-carbonyl group, 3,5-dimethybenzyloxycarbonyl group, 2,5-dimethybenzyloxycarbonyl group, 2,4,6-trimethybenzyloxycarbonyl group, 3,5-ditrifluoro-

- methylbenzyloxycarbonyl group, 4-isopropoxybenzyloxy-
 carbonyl group, 4-n-butoxybenzyloxycarbonyl group, 4-
 methoxybenzyloxycarbonyl group, 2-methoxybenzyloxy-
 carbonyl group, 3-methoxybenzyloxycarbonyl group, 2,4-
 5 dimethoxybenzyloxycarbonyl group, 2,3-dimethoxy-
 benzyloxycarbonyl group, 2,6-dimethoxybenzyloxycarbonyl
 group, 3,5-dimethoxybenzyloxycarbonyl group, 2,5-
 dimethoxybenzyloxycarbonyl group, 2,4,6-trimethoxy-
 benzyloxycarbonyl group, 3,5-ditrifluoromethoxy-
 10 benzyloxycarbonyl group, 2-isopropoxybenzyloxycarbonyl
 group, 3-chloro-4-methoxybenzyloxycarbonyl group, 2-
 chloro-4-trifluoromethoxybenzyloxycarbonyl group, 3-
 methyl-4-fluorobenzyloxycarbonyl group, 4-bromo-3-
 trifluoromethylbenzyloxycarbonyl group, 2-(2-
 15 chlorophenyl)ethyloxycarbonyl group, 2-(3-chloro-
 phenyl)ethoxycarbonyl group, 2-(4-chlorophenyl)-
 ethoxycarbonyl group, 2-trifluoromethylbenzyloxy-
 carbonyl group, 3-trifluoromethylbenzyloxycarbonyl
 group, 4-trifluoromethylbenzyloxycarbonyl group, 2-
 20 trifluoromethoxybenzyloxycarbonyl group, 3-
 trifluoromethoxybenzyloxycarbonyl group, 4-
 trifluoromethoxybenzyloxycarbonyl group, 2-(2-
 trifluoromethylphenyl)ethoxycarbonyl group, 2-(3-
 trifluoromethylphenyl)ethoxycarbonyl group, 2-(4-
 25 trifluoromethylphenyl)ethoxycarbonyl group, 2-(2-
 trifluoromethoxyphenyl)ethoxycarbonyl group, 2-(3-
 trifluoromethoxyphenyl)ethoxycarbonyl group, 2-(4-
 trifluoromethoxyphenyl)ethoxycarbonyl group, 3-(2-

trifluoromethylphenyl)propoxycarbonyl group, 3-(3-trifluoromethylphenyl)propoxycarbonyl group, 3-(4-trifluoromethylphenyl)propoxycarbonyl group, 3-(2-trifluoromethylphenyl)propoxycarbonyl group, 3-(3-
 5 trifluoromethoxyphenyl)propoxycarbonyl group, 3-(4-trifluoromethoxyphenyl)propoxycarbonyl group, 4-(3-trifluoromethylphenyl)butoxycarbonyl group, 5-(4-trifluoromethylphenyl)pentoxycarbonyl group, 4-(4-trifluoromethylphenyl)pentoxycarbonyl group, 4-(4-
 10 trifluoromethoxyphenyl)pentoxycarbonyl group, 6-(3-trifluoromethylphenyl)hexyloxycarbonyl group, 6-(4-trifluoromethylphenyl)hexyloxycarbonyl group, 6-(4-trifluoromethoxyphenyl)hexyloxycarbonyl group or the like.

15 A phenyl C3-6 alkenyloxycarbonyl group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group) is a group containing a phenyl group unsubstituted or substituted by 1 to 3 groups selected from a group
 20 consisting of C1-6 alkyl groups substituted or unsubstituted with halogen(s), an alkenyloxy group having 1 to 3 double bonds comprising 3 to 6 carbons and a carbonyl group. These groups can be a trans-form and cis-form, and both forms are included as a matter
 25 of course. The examples include a 3-phenyl-2-propenyloxycarbonyl group (trivial name: cinnamyloxy-carbonyl group), 4-phenyl-2-butenyloxycarbonyl group, 4-phenyl-3-butenyloxycarbonyl group, 5-phenyl-2-

- pentenyloxy carbonyl group, 5-phenyl-4-pentenyloxy carbonyl group, 5-phenyl-3-pentenyloxy carbonyl group, 6-phenyl-5-hexenyloxy carbonyl group, 6-phenyl-4-hexenyloxy carbonyl group, 6-phenyl-3-hexenyloxy carbonyl group, 6-phenyl-3-hexenyloxy carbonyl group, 4-phenyl-1,3-butadienyloxy carbonyl group, 6-phenyl-1,3,5-hexatrienyloxy carbonyl group, 3-(2-methylphenyl)-2-propenyloxy carbonyl group, 3-(3-methylphenyl)-2-propenyloxy carbonyl group, 3-(4-methylphenyl)-2-propenyloxy carbonyl group, 3-(2-trifluoromethylphenyl)-2-propenyloxy carbonyl group, 3-(3-trifluoromethylphenyl)-2-propenyloxy carbonyl group, 3-(4-trifluoromethylphenyl)-2-propenyloxy carbonyl group, 4-(2-trifluoromethylphenyl)-3-butenyloxy carbonyl group, 4-(3-trifluoromethylphenyl)-3-butenyloxy carbonyl group, 4-(4-trifluoromethylphenyl)-3-butenyloxy carbonyl group, 3-(3,5-ditrifluoromethylphenyl)-2-propenyloxy carbonyl group, 3-[2,4,6-tri(trifluoromethyl)phenyl]-2-propenyloxy carbonyl group, 3-(2,4-dimethylphenyl)-2-propenyloxy carbonyl group or the like.

A phenyl C1-6 alkylidene-substituted amino group (which may be substituted by at least one halogen-substituted or unsubstituted C1-6 alkyl group as a substituent) is a C1-6 alkylidene-substituted amino group substituted by a phenyl group which may be substituted by 1 to 3 halogen-substituted or unsubstituted C1-6 alkyl groups, examples of which include a benzylidene amino group, 2-phenylethylidene

amino group, 3-phenylpropylidene amino group, 4-phenylbutylidene amino group, 5-phenylpentylidene amino group, 6-phenylhexylidene amino group, 2-methylbenzylidene amino group, 2-trifluoromethylbenzylidene amino group, 3-methylbenzylidene amino group, 3-trifluoromethylbenzylidene amino group, 4-methylbenzylidene amino group, 4-trifluoromethylbenzylidene amino group, 3,4-dimethylbenzylidene amino group, 3,4,5-trimethylbenzylidene amino group, 3,5-ditrifluoromethylbenzylidene amino group or the like.

A phenoxy group (which may be substituted on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group) is a phenoxy group unsubstituted or substituted by 1 to 3 C1-6 alkyl groups substituted or unsubstituted with halogen(s) as defined above, examples of which include a phenoxy group, 2-methylphenoxy group, 3-methylphenoxy group, 4-methylphenoxy group, 2-ethylphenoxy group, 3-ethylphenoxy group, 4-ethylphenoxy group, 4-n-propylphenoxy group, 4-tert-butylphenoxy group, 4-n-butylphenoxy group, 2-trifluoromethylphenoxy group, 3-trifluoromethylphenoxy group, 4-trifluoromethylphenoxy group, 2-pentafluoroethylphenoxy group, 3-pentafluoroethylphenoxy group, 2,3-dimethylphenoxy group, 3,4,5-trimethylphenoxy group, 4-n-pentylphenoxy group, 4-n-hexylphenoxy group, 3,5-ditrifluoromethylphenoxy group or the like.

A phenylamino group (which may be substituted

on the phenyl ring by at least one halogen-substituted or unsubstituted C1-6 alkyl group) is a phenylamino group unsubstituted (another name: anilino group) or a phenylamino group substituted by 1 to 3 C1-6 alkyl groups substituted or unsubstituted with halogen(s) defined above, examples of which include a phenylamino group, 2-methylphenylamino group, 3-methylphenylamino group, 4-methylphenylamino group, 2-ethylphenylamino group, 3-ethylphenylamino group, 4-ethylphenylamino group, 4-propylphenylamino group, 4-tert-butylphenylamino group, 4-butylphenylamino group, 2-trifluoromethylphenylamino group, 3-trifluoromethylphenylamino group, 4-trifluoromethylphenylamino group, 2-pentafluoroethylphenylamino group, 3-pentafluoroethylphenylamino group, 2,3-dimethylphenylamino group, 3,4,5-trimethylphenylamino group, 4-n-pentylphenylamino group, 4-n-hexylphenylamino group, 3,5-ditrifluoromethylphenylamino group or the like.

An indolinyl group which may be substituted by at least one halogen atom is an indolinyl group unsubstituted or substituted by 1 to 3 fluorine, chlorine, bromine or iodine atoms at 2, 3, 4, 5, 6 or 7 position, examples of which include a 1-indolinyl group, 2-fluoro-1-indolinyl group, 3-bromo-1-indolinyl group, 4,5-dichloro-1-indolinyl group, 4-fluoro-1-indolinyl group, 4,5,6-trifluoro-1-indolinyl group, 5-fluoro-1-indolinyl group, 6-fluoro-1-indolinyl group, 7-fluoro-1-indolinyl group, 4-chloro-1-indolinyl group,

5-chloro-1-indolinyl group, 6-chloro-1-indolinyl group, 7-chloro-1-indolinyl group, 4-bromo-1-indolinyl group, 5-bromo-1-indolinyl group, 6-bromo-1-indolinyl group, 7-bromo-1-indolinyl group, 4-iodo-1-indolinyl group, 5-iodo-1-indolinyl group, 6-iodo-1-indolinyl group, 7-iodo-1-indolinyl group or the like.

An isoindolinyl group which may be substituted by at least one halogen atom is the indolinyl group unsubstituted or substituted by 1 to 3 fluorine, chlorine, bromine or iodine atoms at 1, 3, 4, 5, 6 or 7 position, examples of which include a 2-isoindolinyl group, 1-fluoro-2-isoindolinyl group, 3-bromo-2-isoindolinyl group, 4,5-dichloro-2-isoindolinyl group, 4,5,6-trifluoro-2-isoindolinyl group, 4-fluoro-2-isoindolinyl group, 5-fluoro-2-isoindolinyl group, 6-fluoro-2-isoindolinyl group, 7-fluoro-2-isoindolinyl group, 4-chloro-2-isoindolinyl group, 5-chloro-2-isoindolinyl group, 6-chloro-2-isoindolinyl group, 7-chloro-2-isoindolinyl group, 4-bromo-2-isoindolinyl group, 5-bromo-2-isoindolinyl group, 6-bromo-2-isoindolinyl group, 7-bromo-2-isoindolinyl group, 4-iodo-2-isoindolinyl group, 5-iodo-2-isoindolinyl group, 6-iodo-2-isoindolinyl group, 7-iodo-2-isoindolinyl group or the like.

25 A 1,2,3,4-tetrahydroquinolyl group which may be substituted by at least one halogen atom is a 1,2,3,4-tetrahydroquinolyl group unsubstituted or substituted by 1 to 3 fluorine, chlorine, bromine or

iodine atoms at 2, 3, 4, 5, 6, 7 or 8 position,
 examples of which include a 1,2,3,4-tetrahydro-1-quinolyl group, 5-fluoro-1,2,3,4-tetrahydro-1-quinolyl group, 2-bromo-1,2,3,4-tetrahydro-1-quinolyl group, 3-iodo-1,2,3,4-tetrahydro-1-quinolyl group, 4-chloro-1,2,3,4-tetrahydro-1-quinolyl group, 3,4-dichloro-1,2,3,4-tetrahydro-1-quinolyl group, 4,5,6-trichloro-1,2,3,4-tetrahydro-1-quinolyl group, 6-fluoro-1,2,3,4-tetrahydro-1-quinolyl group, 7-fluoro-1,2,3,4-tetrahydro-1-quinolyl group, 8-fluoro-1,2,3,4-tetrahydro-1-quinolyl group, 5-chloro-1,2,3,4-tetrahydro-1-quinolyl group, 6-chloro-1,2,3,4-tetrahydro-1-quinolyl group, 7-chloro-1,2,3,4-tetrahydro-1-quinolyl group, 8-chloro-1,2,3,4-tetrahydro-1-quinolyl group, 5-bromo-1,2,3,4-tetrahydro-1-quinolyl group, 6-bromo-1,2,3,4-tetrahydro-1-quinolyl group, 7-bromo-1,2,3,4-tetrahydro-1-quinolyl group, 8-bromo-1,2,3,4-tetrahydro-1-quinolyl group, 5-iodo-1,2,3,4-tetrahydro-1-quinolyl group, 6-iodo-1,2,3,4-tetrahydro-1-quinolyl group, 7-iodo-1,2,3,4-tetrahydro-1-quinolyl group, 8-iodo-1,2,3,4-tetrahydro-1-quinolyl group or the like.

A 1,2,3,4-tetrahydroisoquinolyl group which may be substituted by at least one halogen atom is a 1,2,3,4-tetrahydroisoquinolyl group unsubstituted or substituted by 1 to 3 fluorine, chlorine, bromine or iodine atoms at 1, 3, 4, 5, 6, 7 or 8 position, examples of which include a 1,2,3,4-tetrahydro-2-

- isoquinolyl group, 1-bromo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 3-iodo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 4-chloro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 3,4-dichloro-1,2,3,4-tetrahydro-2-
- 5 isoquinolyl group, 4,5,6-trichloro-1,2,3,4-tetrahydro-
- 2-isoquinolyl group, 5-fluoro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 6-fluoro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 7-fluoro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 8-fluoro-1,2,3,4-tetrahydro-2-
- 10 isoquinolyl group, 5-chloro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 6-chloro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 7-chloro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 8-chloro-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 5-bromo-1,2,3,4-tetrahydro-2-
- 15 isoquinolyl group, 6-bromo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 7-bromo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 8-bromo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 5-iodo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 6-iodo-1,2,3,4-tetrahydro-2-
- 20 isoquinolyl group, 7-iodo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, 8-iodo-1,2,3,4-tetrahydro-2-
- isoquinolyl group, or the like.

A phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group

25 selected from a group consisting of halogen atom(s), a halogen-substituted or unsubstituted C1-6 alkyl group or a halogen-substituted, unsubstituted C1-6 alkoxy group and a phenoxy group (which may be substituted on

the phenyl ring by at least one group selected from a group consisting of halogen atom(s), a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), and also, the C1-6 alkyl moiety is substituted by a C1-6 alkoxyimino group) is a group containing an unsubstituted phenyl group or a phenyl group substituted by 1 to 5 groups, preferably 1 to 3 groups selected from a group consisting of a halogen atom, a C1-6 alkyl group substituted or unsubstituted with halogen(s), a halogen-substituted or unsubstituted C1-6 alkoxy group and a phenoxy group (which may be substituted on the phenyl ring by 1 to 3 groups selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group or a halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent) and containing an alkyl group of 1 to 6 carbons, examples of which include a benzyl group, 1-phenethyl group, 2-phenethyl group, 3-phenylpropyl group, 2-phenylpropyl group, 4-phenylbutyl group, 5-phenylpentyl group, 4-phenylpentyl group, 6-phenylhexyl group, 2-fluorobenzyl group, 3-fluorobenzyl group, 4-fluorobenzyl group, 2-chlorobenzyl group, 3-chlorobenzyl group, 4-chlorobenzyl group, 2-bromobenzyl group, 3-bromobenzyl group, 4-bromobenzyl group, 2-iodobenzyl group, 3-iodobenzyl group, 4-iodobenzyl group, 2,3-difluorobenzyl group, 3,4-difluorobenzyl group, 3,5-difluorobenzyl group, 2,4-difluorobenzyl

- group, 2,6-difluorobenzyl group, 2,3-dichlorobenzyl group, 3,4-dichlorobenzyl group, 3,5-dichlorobenzyl group, 2,4-dichlorobenzyl group, 2,6-dichlorobenzyl group, 2-fluoro-4-bromobenzyl group, 4-chloro-3-fluorobenzyl group, 2,3,4-trichlorobenzyl group, 3,4,5-trifluorobenzyl group, 2,3,4,5,6-pentafluorobenzyl group, 2,4,6-trichlorobenzyl group, 4-isopropylbenzyl group, 4-n-butylbenzyl group, 4-methylbenzyl group, 2-methylbenzyl group, 3-methylbenzyl group, 2,4-dimethylbenzyl group, 2,3-dimethylbenzyl group, 2,6-dimethylbenzyl group, 3,5-dimethylbenzyl group, 2,5-dimethylbenzyl group, 2,4,6-trimethylbenzyl group, 3,5-ditrifluoromethylbenzyl group, 4-isopropoxybenzyl group, 4-n-butoxybenzyl group, 4-methoxybenzyl group, 2-methoxybenzyl group, 3-methoxybenzyl group, 2,4-dimethoxybenzyl group, 2,3-dimethoxybenzyl group, 2,6-dimethoxybenzyl group, 3,5-dimethoxybenzyl group, 2,5-dimethoxybenzyl group, 2,4,6-trimethoxybenzyl group, 3,5-ditrifluoromethoxybenzyl group, 2-isopropoxybenzyl group, 3-chloro-4-methoxybenzyl group, 2-chloro-4-trifluoromethoxybenzyl group, 3-methyl-4-fluorobenzyl group, 4-bromo-3-trifluoromethylbenzyl group, 2-trifluoromethylbenzyl group, 3-trifluoromethylbenzyl group, 4-trifluoromethylbenzyl group, 2-pentafluoroethylbenzyl group, 3-pentafluoroethylbenzyl group, 4-pentafluoroethylbenzyl group, 2-trifluoromethoxybenzyl group, 3-trifluoromethoxybenzyl group, 4-trifluoromethoxybenzyl group, 2-pentafluoroethoxybenzyl group,

3-pentafluoroethoxybenzyl group, 4-pentafluoroethoxybenzyl group, 2-(2-trifluoromethylphenyl)ethyl group, 2-(3-trifluoromethylphenyl)ethyl group, 2-(4-trifluoromethylphenyl)ethyl group, 2-(2-trifluoro-

5 methoxyphenyl)ethyl group, 2-(3-trifluoromethoxyphenyl)ethyl group, 2-(4-trifluoromethoxyphenyl)ethyl group, 2-(2-pentafluoroethoxyphenyl)ethyl group, 2-(3-pentafluoroethoxyphenyl)ethyl group, 2-(4-pentafluoroethoxyphenyl)ethyl group, 3-(2-trifluoromethylphenyl)-

10 propyl group, 3-(3-trifluoromethylphenyl)propyl group, 3-(4-trifluoromethylphenyl)propyl group, 3-(2-trifluoromethoxyphenyl)propyl group, 3-(3-trifluoromethoxyphenyl)propyl group, 3-(4-trifluoromethoxyphenyl)propyl group, 3-(3-pentafluoroethoxyphenyl)-

15 propyl group, 3-(4-pentafluoroethoxyphenyl)propyl group, 4-(3-pentafluoroethoxyphenyl)butyl group, 5-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethoxyphenyl)pentyl group, 6-(3-trifluoromethylphenyl)hexyl

20 group, 6-(4-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethoxyphenyl)hexyl group, (4-pentafluoroethoxyphenyl)propyl group, 4-(3-pentafluoroethoxyphenyl)butyl group, 5-(4-trifluoromethylphenyl)pentyl group, 4-(4-trifluoromethylphenyl)pentyl group, 4-(4-

25 trifluoromethoxyphenyl)pentyl group, 6-(3-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethylphenyl)hexyl group, 6-(4-trifluoromethoxyphenyl)hexyl group, 3-phenoxybenzyl group, 4-phenoxybenzyl group, 2-(4-

- phenoxyphenyl)ethyl group, 3-(4-phenoxyphenyl)propyl group, 2-(4-phenoxyphenyl)propyl group, 4-(4-phenoxyphenyl)butyl group, 5-(4-phenoxyphenyl)pentyl group, 4-(4-phenoxyphenyl)pentyl group, 6-(4-phenoxyphenyl)hexyl group, 2-phenoxybenzyl group, 2-(3-phenoxyphenyl)ethyl group, 3-(2-phenoxyphenyl)propyl group, 2-(2-phenoxyphenyl)propyl group, 4-(3-phenoxyphenyl)butyl group, 5-(2-phenoxyphenyl)pentyl group, 4-(3-phenoxyphenyl)pentyl group, 6-(3-phenoxyphenyl)hexyl group, 4-(2-chlorophenoxy)benzyl group, 4-(3-chlorophenoxy)benzyl group, 4-(4-chlorophenoxy)benzyl group, 4-(2-trifluoromethylphenoxy)benzyl group, 4-(3-trifluoromethylphenoxy)benzyl group, 4-(4-trifluoromethylphenoxy)benzyl group, 4-(2-trifluoromethoxyphenoxy)benzyl group, 4-(3-trifluoromethoxyphenoxy)benzyl group, 4-(4-trifluoromethoxyphenoxy)benzyl group, 2-[4-(4-chlorophenoxy)phenyl]ethyl group, 2-[4-(4-trifluoromethylphenoxy)phenyl]ethyl group, 3-[4-(4-chlorophenoxy)phenyl]propyl group, 3-[4-(4-trifluoromethylphenoxy)phenyl]propyl group, 3-[4-(4-trifluoromethoxyphenoxy)phenyl]propyl group, 2-[4-(4-chlorophenoxy)phenyl]propyl group, 4-[4-(4-chlorophenoxy)phenyl]butyl group, 4-[4-(4-trifluoromethylphenoxy)phenyl]butyl group, 4-[4-(4-trifluoromethoxyphenoxy)phenyl]butyl group, 5-[4-(4-chlorophenoxy)phenyl]pentyl group, 4-[4-(4-chlorophenoxy)phenyl]pentyl group, 6-[4-(4-chlorophenoxy)phenyl]hexyl group,

6-[4-(4-trifluoromethylphenoxy)phenyl]hexyl group, 6-[4-(4-trifluoromethoxyphenoxy)phenyl]hexyl group, (2-fluoro-4-bromophenoxy)benzyl group, (4-chloro-3-fluorophenoxy)benzyl group, (2,3,4-trichlorophenoxy)-

5 benzyl group, (3,4,5-trifluorophenoxy)benzyl group, (2,4,6-trichlorophenoxy)benzyl group, (4-isopropylphenoxy)benzyl group, (4-n-butylphenoxy)benzyl group, (4-methylphenoxy)benzyl group, (2-methylphenoxy)benzyl group, (3-methylphenoxy)benzyl group, (2,4-dimethyl-

10 phenoxy)benzyl group, (2,3-dimethylphenoxy)benzyl group, (2,6-dimethylphenoxy)benzyl group, (3,5-dimethylphenoxy)benzyl group, (2,5-dimethylphenoxy)-benzyl group, (2,4,6-trimethylphenoxy)benzyl group, (3,5-ditrifluoromethylphenoxy)benzyl group, (4-

15 isopropoxyphenoxy)benzyl group, (4-n-butoxyphenoxy)-benzyl group, (4-methoxyphenoxy)benzyl group, (2-methoxyphenoxy)benzyl group, (3-methoxyphenoxy)benzyl group, (2,4-dimethoxyphenoxy)benzyl group, (2,3-dimethoxyphenoxy)benzyl group, (2,6-dimethoxy-

20 phenoxy)benzyl group, (3,5-dimethoxyphenoxy)benzyl group, (2,5-dimethoxyphenoxy)benzyl group, (2,4,6-trimethoxyphenoxy)benzyl group, (3,5-ditrifluoromethoxyphenoxy)benzyl group, (2-isopropoxyphenoxy)-benzyl group, (3-chloro-4-methoxyphenoxy)benzyl group,

25 (2-chloro-4-trifluoromethoxyphenoxy)benzyl group, (3-methyl-4-fluorophenoxy)benzyl group, (4-bromo-3-trifluoromethylphenoxy)benzyl or the like.

A benzoyl group (which may be substituted on

the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group)

5 include the benzoyl group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of halogen atom(s), a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy

10 group), for example, benzoyl group, 2-fluorobenzoyl group, 3-fluorobenzoyl group, 4-fluorobenzoyl group, 2,3-difluorobenzoyl group, 2,3,4,5,6-pentafluorobenzoyl group, 3,4-difluorobenzoyl group, 2-chlorobenzoyl group, 3-chlorobenzoyl group, 4-chlorobenzoyl group,

15 2,3-dichlorobenzoyl group, 3,4-dichlorobenzoyl group, 2-bromobenzoyl group, 3-bromobenzoyl group, 4-bromobenzoyl group, 2,3-dibromobenzoyl group, 3,4-dibromobenzoyl group, 2-fluoro-4-bromobenzoyl group, 4-chloro-3-fluorobenzoyl group, 2,3,4-trifluorobenzoyl

20 group, 2,4,6-trichlorobenzoyl group, 4-isopropylbenzoyl group, 4-n-butylbenzoyl group, 2,4-dimethylbenzoyl group, 2,3-dimethylbenzoyl group, 2,6-dimethylbenzoyl group, 3,5-dimethylbenzoyl group, 2,5-dimethylbenzoyl group, 2,4,6-trimethylbenzoyl group, 3,5-ditrifluoro-

25 methylbenzoyl group, 4-n-butoxybenzoyl group, 2,4-dimethoxybenzoyl group, 2,3-dimethoxybenzoyl group, 2,6-dimethoxybenzoyl group, 3,5-dimethoxybenzoyl group, 2,5-dimethoxybenzoyl group, 3,5-ditrifluoromethoxy-

benzoyl group, 3-chloro-4-methoxybenzoyl group, 2-chloro-4-trifluoromethoxybenzoyl group, 3-methyl-4-fluorobenzoyl group, 4-bromo-3-trifluoromethylbenzoyl group, 2-methylbenzoyl group, 3-methylbenzoyl group, 4-methylbenzoyl group, 3,4-dimethylbenzoyl group, 2-iodobenzoyl group, 3-iodobenzoyl group, 4-iodobenzoyl group, 2-trifluoromethylbenzoyl group, 3-trifluoromethylbenzoyl group, 4-trifluoromethylbenzoyl group, 2,3-ditrifluoromethylbenzoyl group, 3,4-ditrifluoromethylbenzoyl group, 2-methoxybenzoyl group, 3-methoxybenzoyl group, 4-methoxybenzoyl group, 2-trifluoromethoxybenzoyl group, 3-trifluoromethoxybenzoyl group, 4-trifluoromethoxybenzoyl group or the like.

Examples of a pyridyl group (which may be substituted on the pyridine ring by at least one halogen atom as a substituent) include a pyridyl group (which may be substituted on the pyridine ring by 1 to 3 halogen atoms as a substituent), for example, 2-pyridyl group, 3-pyridyl group, 4-pyridyl group, a 2-chloropyridin-3-yl group, 2-chloropyridin-4-yl group, 2-chloropyridin-5-yl group, 5-chloropyridin-2-yl group, 4-chloropyridin-2-yl group, 3-chloropyridin-2-yl group, 2-fluoropyridin-3-yl group, 2-fluoropyridin-4-yl group, 2-fluoropyridin-5-yl group, 5-fluoropyridin-2-yl group, 4-fluoropyridin-2-yl group, 3-fluoropyridin-2-yl group, 2-bromopyridin-3-yl group, 2-bromopyridin-4-yl group, 2-bromopyridin-5-yl group, 5-bromopyridin-2-yl group,

4-bromopyridin-2-yl group, 3-bromopyridin-2-yl group, 2-bromo-4-chloropyridin-4-yl group, 2,6-dichloropyridin-4-yl group, 2,4,6-trichloropyridin-3-yl group or the like.

- 5 A phenoxy C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of halogen atom(s), a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy
- 10 group) is a group containing a phenoxy group unsubstituted or substituted by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group
- 15 defined above and a C1-6 alkyl group, examples of which include a phenoxymethyl group, 2-phenoxyethyl group, 3-phenoxypropyl group, 4-phenoxybutyl group, 5-phenoxypentyl group, 6-phenoxyhexyl group, 4-fluorophenoxymethyl group, 2-fluoro-4-bromophenoxymethyl group, 4-
- 20 chloro-3-fluorophenoxymethyl group, 2,3,4-trichlorophenoxymethyl group, 3,4,5-trichlorophenoxymethyl group, 2,4,6-trichlorophenoxymethyl group, 4-isopropylphenoxymethyl group, 4-n-butylphenoxymethyl group, 4-methylphenoxymethyl group, 2-
- 25 methylphenoxymethyl group, 3-methylphenoxymethyl group, 2,4-dimethylphenoxymethyl group, 2,3-dimethylphenoxymethyl group, 2,6-dimethylphenoxymethyl group, 3,5-dimethylphenoxymethyl group, 2,5-

- dimethylphenoxymethyl group, 2,4,6-trimethylphenoxymethyl group, 3,5-ditrifluoromethylphenoxymethyl group, 2,3,4,5,6-pentafluorophenoxymethyl group, 4-isopropoxyphenoxymethyl group, 4-n-
- 5 butoxyphenoxymethyl group, 4-methoxyphenoxymethyl group, 2-methoxyphenoxymethyl group, 3-methoxyphenoxymethyl group, 2,4-dimethoxyphenoxymethyl group, 2,3-dimethoxyphenoxymethyl group, 2,6-dimethoxyphenoxymethyl group, 3,5-dimethoxyphenoxymethyl group, 2,5-
- 10 dimethoxyphenoxymethyl group, 2,4,6-trimethoxyphenoxymethyl group, 3,5-ditrifluoromethoxyphenoxymethyl group, 2-isopropoxyphenoxymethyl group, 3-chloro-4-methoxyphenoxymethyl group, 2-chloro-4-trifluoromethoxyphenoxymethyl group, 3-methyl-4-fluorophenoxymethyl group, 4-bromo-3-trifluoromethylphenoxymethyl
- 15 group, 2-(4-fluorophenoxy)ethyl group, 3-(4-fluorophenoxy)propyl group, 4-(4-fluorophenoxy)butyl group, 5-(4-fluorophenoxy)pentyl group, 6-(4-fluorophenoxy)hexyl group, 4-chlorophenoxymethyl group,
- 20 2-(4-chlorophenoxy)ethyl group, 3-(4-chlorophenoxy)propyl group, 4-(4-chlorophenoxy)butyl group, 5-(4-chlorophenoxy)pentyl group, 6-(4-chlorophenoxy)hexyl group, 4-methylphenoxymethyl group, 2-(4-methylphenoxy)ethyl group, 3-(4-methylphenoxy)propyl group,
- 25 4-(4-methylphenoxy)butyl group, 5-(4-methylphenoxy)pentyl group, 6-(4-methylphenoxy)hexyl group, 4-trifluoromethylphenoxymethyl group, 2-(4-trifluoromethylphenoxy)ethyl group, 3-(4-trifluoromethyl-

phenoxy)propyl group, 4-(4-trifluoromethylphenoxy)butyl group, 5-(4-trifluoromethylphenoxy)pentyl group, 6-(4-trifluoromethylphenoxy)hexyl group, 4-trifluoromethoxyphenoxyethyl group, 2-(4-trifluoromethoxyphenoxy)ethyl group, 3-(4-trifluoromethoxyphenoxy)propyl group, 4-(4-trifluoromethoxyphenoxy)butyl group, 5-(4-trifluoromethoxyphenoxy)pentyl group, 6-(4-trifluoromethoxyphenoxy)hexyl group, 2-(4-methoxyphenoxy)ethyl group, 3-(4-methoxyphenoxy)propyl group, 4-(4-methoxyphenoxy)butyl group, 5-(4-methoxyphenoxy)pentyl group, 6-(4-methoxyphenoxy)hexyl group or the like.

A benzoyl C1-6 alkyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group) includes a benzoyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group), for example, a benzoylmethyl group, 2-benzoylpropyl group, 1-benzoylpropyl group, 3-benzoylpropyl group, 4-benzoylbutyl group, 5-benzoylpentyl group, 6-benzoylhexyl group, 2-methyl-3-benzoylpropyl group, 1,1-dimethyl-2-benzoylpropyl group, 2-fluorobenzoylmethyl group, 3-fluorobenzoylmethyl group, 4-fluorobenzoylmethyl group, 2-chlorobenzoyl-

- methyl group, 3-chlorobenzoylmethyl group, 4-chlorobenzoylmethyl group, 2-bromobenzoylmethyl group, 3-bromobenzoylmethyl group, 4-bromobenzoylmethyl group, 2-fluoro-4-bromobenzoylmethyl group, 4-chloro-3-fluorobenzoylmethyl group, 2,3,4-trichlorobenzoylmethyl group, 2,4,6-trichlorobenzoylmethyl group, 4-isopropylbenzoylmethyl group, 4-n-butylbenzoylmethyl group, 2,4-dimethylbenzoylmethyl group, 2,3-dimethylbenzoylmethyl group, 2,6-dimethylbenzoylmethyl group, 3,5-dimethylbenzoylmethyl group, 2,5-dimethylbenzoylmethyl group, 2,4,6-trimethylbenzoylmethyl group, 3,5-ditrifluoromethylbenzoylmethyl group, 2,3,4,5,6-pentafluorobenzoylmethyl group, 4-n-butoxybenzoylmethyl group, 2,4-dimethoxybenzoylmethyl group, 2,3-dimethoxybenzoylmethyl group, 2,6-dimethoxybenzoylmethyl group, 3,5-dimethoxybenzoylmethyl group, 2,5-dimethoxybenzoylmethyl group, 3,5-ditrifluoromethoxybenzoylmethyl group, 3-chloro-4-methoxybenzoylmethyl group, 2-chloro-4-trifluoromethoxybenzoylmethyl group, 3-methyl-4-fluorobenzoylmethyl group, 4-bromo-3-trifluoromethylbenzoylmethyl group, 2-trifluoromethylbenzoylmethyl group, 3-trifluoromethylbenzoylmethyl group, 4-trifluoromethylbenzoylmethyl group, 2-trifluoromethoxybenzoylmethyl group, 3-trifluoromethoxybenzoylmethyl group, 4-trifluoromethoxybenzoylmethyl group, 2-(2-fluorobenzoyl)ethyl group, 2-(3-fluorobenzoyl)ethyl group, 2-(4-fluorobenzoyl)ethyl group, 2-(2-chlorobenzoyl)ethyl group, 2-(3-chlorobenzoyl)ethyl

- group, 2-(4-chlorobenzoyl)ethyl group, 2-(2-bromobenzoyl)ethyl group, 2-(3-bromobenzoyl)ethyl group, 2-(4-bromobenzoyl)ethyl group, 2-(2-trifluoromethylbenzoyl)ethyl group, 2-(3-trifluoromethylbenzoyl)ethyl group, 2-(4-trifluoromethylbenzoyl)ethyl group, 2-(2-trifluoromethoxybenzoyl)ethyl group, 2-(3-trifluoromethoxybenzoyl)ethyl group, 2-(4-trifluoromethoxybenzoyl)ethyl group, 3-(2-chlorobenzoyl)propyl group, 3-(3-chlorobenzoyl)propyl group, 3-(4-chlorobenzoyl)propyl group, 3-(2-trifluoromethylbenzoyl)propyl group, 3-(3-trifluoromethylbenzoyl)propyl group, 3-(4-trifluoromethylbenzoyl)propyl group, 3-(2-trifluoromethoxybenzoyl)propyl group, 3-(3-trifluoromethoxybenzoyl)propyl group, 3-(4-trifluoromethoxybenzoyl)propyl group, 4-(2-chlorobenzoyl)butyl group, 4-(3-chlorobenzoyl)butyl group, 4-(4-chlorobenzoyl)butyl group, 4-(2-trifluoromethylbenzoyl)butyl group, 4-(3-trifluoromethylbenzoyl)butyl group, 4-(4-trifluoromethylbenzoyl)butyl group, 4-(2-trifluoromethoxybenzoyl)butyl group, 4-(3-trifluoromethoxybenzoyl)butyl group, 4-(4-trifluoromethoxybenzoyl)butyl group, 5-(2-chlorobenzoyl)pentyl group, 5-(3-chlorobenzoyl)pentyl group, 5-(4-chlorobenzoyl)pentyl group, 5-(2-trifluoromethylbenzoyl)pentyl group, 5-(3-trifluoromethylbenzoyl)pentyl group, 5-(4-trifluoromethylbenzoyl)pentyl group, 5-(2-trifluoromethoxybenzoyl)pentyl group, 5-(3-trifluoromethoxybenzoyl)pentyl group, 5-(4-trifluoro-

methoxybenzoyl)pentyl group, 6-(2-chlorobenzoyl)hexyl group, 6-(3-chlorobenzoyl)hexyl group, 6-(4-chlorobenzoyl)hexyl group, 6-(2-trifluoromethylbenzoyl)hexyl group, 6-(3-trifluoromethylbenzoyl)hexyl group, 6-(4-trifluoromethylbenzoyl)hexyl group, 6-(2-trifluoromethoxybenzoyl)hexyl group, 6-(3-trifluoromethoxybenzoyl)hexyl group, 6-(4-trifluoromethoxybenzoyl)hexyl group or the like.

A phenoxy group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom; halogen-substituted or unsubstituted C1-6 alkyl group; halogen-substituted or unsubstituted C1-6 alkoxy group; C1-4 alkylenedioxy group; C1-6 alkoxycarbonyl group; cyano group; C2-6 alkenyl group; nitro group; phenyl group; an amino group which may have a group selected from a group consisting of a phenyl group, C1-6 alkyl group, carbamoyl group and C1-6 alkanoyl group as a substituent; C1-6 alkyl group substituted by a C1-6 alkanoyl group; hydroxyl group; C1-6 alkyl group substituted by a C1-6 alkoxycarbonyl group; phenyl C1-6 alkyl group; C1-6 alkanoyl group; C1-6 alkylthio group; 1,2,4-triazolyl group; isoxazolyl group; imidazolyl group; benzothiazolyl group; 2H-benzotriazolyl group; pyrolyl group; benzoxazolyl group; piperazinyl group (which may be substituted on the piperazin ring by at least one group selected from a group consisting of a C1-6 alkoxycarbonyl group and a phenyl C1-6 alkyl group

(which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent);

5 piperidyl group (which may be substituted on the piperidine ring by at least one amino group (which may be substituted on the amino group by at least one group selected from a group consisting of a C1-6 alkyl and

10 phenyl group (which may be substituted on the phenyl ring with at least one group from a group consisting of a halogen atom, a halogen-substituted or unsubstituted C1-6 alkyl group and a halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent); and

15 carbamoyl group)) includes a phenoxy group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a halogen atom; a halogen-substituted or unsubstituted C1-6 alkyl group; halogen-substituted or unsubstituted

20 C1-6 alkoxy group; C1-4 alkylenedioxy group; C1-6 alkoxycarbonyl group; cyano group; C2-6 alkenyl group; nitro group; phenyl group; an amino group which may have 1 to 2 groups selected from a group consisting of phenyl group, C1-6 alkyl group, carbamoyl group and C1-

25 6 alkanoyl group as a substituent; C1-6 alkyl group substituted by a C1-6 alkanoyl group; hydroxyl group; C1-6 alkyl group substituted by a C1-6 alkoxycarbonyl group; phenyl C1-6 alkyl group; C1-6 alkanoyl group;

C1-6 alkylthio group; 1,2,4-triazolyl group; isoxazolyl group; imidazolyl group; benzothiazolyl group; 2H-benzotriazolyl group; pyrrolyl group; benzoxazolyl group; piperazinyl group (which may be substituted on the piperazin ring by 1 to 3 groups selected from a group consisting of a C1-6 alkoxycarbonyl group and phenyl C1-6 alkyl group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent); piperidyl group (which may be substituted on the piperidine ring by 1 to 3 groups selected from a group consisting of an amino group (which may be substituted on the amino group by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a C1-6 alkyl and phenyl group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups from a group consisting of a halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group) as a substituent) and carbamoyl group), for example, a phenoxy group, 2-fluorophenoxy group, 3-fluorophenoxy group, 4-fluorophenoxy group, 2-chlorophenoxy group, 3-chlorophenoxy group, 4-chlorophenoxy group, 2-bromophenoxy group, 3-bromophenoxy group, 4-bromophenoxy group, 2-iodophenoxy group, 3-iodophenoxy group, 4-iodophenoxy group, 2,3-

- difluorophenoxy group, 3,4-difluorophenoxy group, 3,5-
 difluorophenoxy group, 2,4-difluorophenoxy group, 2,6-
 difluorophenoxy group, 2,3-dichlorophenoxy group, 3,4-
 dichlorophenoxy group, 3,5-dichlorophenoxy group, 2,4-
 5 dichlorophenoxy group, 2,6-dichlorophenoxy group,
 2,3,4-trifluorophenoxy group, 3,4,5-trifluorophenoxy
 group, 3,4,5-trichlorophenoxy group, 2,4,6-trifluoro-
 phenoxy group, 2,3,4,5,6-pentafluorophenoxy group,
 2,4,6-trichlorophenoxy group, 2-fluoro-4-chlorophenoxy
 10 group, 2-fluoro-4-bromophenoxy group, 3-fluoro-4-
 chlorophenoxy group, 2-methylphenoxy group, 3-
 methylphenoxy group, 4-methylphenoxy group, 2,6-
 dimethylphenoxy group, 2,4,6-trimethylphenoxy group, 2-
 methyl-3-chlorophenoxy group, 3-methyl-4-chlorophenoxy
 15 group, 2-chloro-4-methylphenoxy group, 2-methyl-3-
 fluorophenoxy group, 2-trifluoromethylphenoxy group, 3-
 trifluoromethylphenoxy group, 4-trifluoromethylphenoxy
 group, 3,5-di(trifluoromethyl)phenoxy group, 3,4-
 di(trifluoromethyl)phenoxy group, 2,4-di(trifluoro-
 20 methyl)phenoxy group, 2-pentafluoroethylphenoxy group,
 3-pentafluoroethylphenoxy group, 4-pentafluoroethyl
 phenoxy group, 2-isopropylphenoxy group, 3-isopropyl-
 phenoxy group, 4-isopropylphenoxy group, 2-tert-
 butylphenoxy group, 3-tert-butylphenoxy group, 4-tert-
 25 butylphenoxy group, 2-sec-butylphenoxy group, 3-sec-
 butylphenoxy group, 4-sec-butylphenoxy group, 4-n-
 butylphenoxy group, 4-n-pentylphenoxy group, 4-n-
 hexylphenoxy group, 2-n-heptafluoropropylphenoxy group,

- 3-n-heptafluoropropylphenoxy group, 4-n-heptafluoro-
 propylphenoxy group, 4-pentylphenoxy group, 4-
 hexylphenoxy group, 2-methoxyphenoxy group, 3-
 methoxyphenoxy group, 4-methoxyphenoxy group, 2-
 5 methoxy-3-chlorophenoxy group, 2-fluoro-3-methoxy-
 phenoxy group, 2-fluoro-4-methoxyphenoxy group, 2-
 fluoro-4-bromophenoxy group, 2,4-dimethylphenoxy group,
 2,3-dimethylphenoxy group, 3,5-dimethylphenoxy group,
 2,5-dimethylphenoxy group, 4-isopropoxyphenoxy group,
 10 4-n-butoxyphenoxy group, 2,4-dimethoxyphenoxy group,
 2,3-dimethoxyphenoxy group, 3,5-dimethoxyphenoxy group,
 2,5-dimethoxyphenoxy group, 2,4,6-trimethoxyphenoxy
 group, 3,5-ditrifluoromethoxyphenoxy group, 2-
 isopropoxyphenoxy group, 3-chloro-4-methoxyphenoxy
 15 group, 2-chloro-4-trifluoromethoxyphenoxy group, 3-
 methyl-4-fluorophenoxy group, 4-bromo-3-
 trifluoromethylphenoxy group, 2,6-dimethoxyphenoxy
 group, 2-trifluoromethoxyphenoxy group, 3-trifluoro-
 methoxyphenoxy group, 4-trifluoromethoxyphenoxy group,
 20 2,3-di(trifluoromethoxy)phenoxy group, 3,5-
 di(trifluoromethoxy)phenoxy group, 2,4-di(trifluoro-
 methoxy)phenoxy group, 2-pentafluoroethoxyphenoxy
 group, 3-pentafluoroethoxyphenoxy group, 4-
 pentafluoroethoxyphenoxy group, 3-isopropoxyphenoxy
 25 group, 2-tert-butoxyphenoxy group, 3-tert-butoxyphenoxy
 group, 4-tert-butoxyphenoxy group, 2-sec-butoxyphenoxy
 group, 3-sec-butoxyphenoxy group, 4-sec-butoxyphenoxy
 group, 4-n-hexyloxyphenoxy group, 2-n-heptafluoro-

- propoxyphenoxy group, 3-n-heptafluoropropoxyphenoxy group, 4-n-heptafluoropropoxyphenoxy group, 2,3-methylenedioxyphenoxy group, 3,4-methylenedioxyphenoxy group, 2,3-ethylenedioxyphenoxy group, 3,4-
- 5 ethylenedioxyphenoxy group, 2-methoxycarbonylphenoxy group, 3-methoxycarbonylphenoxy group, 4-methoxycarbonylphenoxy group, 2-ethoxycarbonylphenoxy group, 3-ethoxycarbonylphenoxy group, 4-ethoxycarbonylphenoxy group, 4-propoxycarbonylphenoxy
- 10 group, 4-butoxycarbonylphenoxy group, 4-pentoxycarbonylphenoxy group, 4-hexyloxycarbonylphenoxy group, 2-cyanophenoxy group, 3-cyanophenoxy group, 4-cyanophenoxy group, 2,3-dicyanophenoxy group, 2,4,6-tricyanophenoxy group, 2-vinylphenoxy group, 3-
- 15 vinylphenoxy group, 4-vinylphenoxy group, 2-allylphenoxy group, 3-allylphenoxy group, 4-allylphenoxy group, 2-(3-butenyl)phenoxy group, 3-(3-butenyl)phenoxy group, 4-(3-butenyl)phenoxy group, 2-(4-pentenyl)phenoxy group, 3-(4-pentenyl)phenoxy group, 4-(4-
- 20 pentenyl)phenoxy group, 2-(5-hexenyl)phenoxy group, 3-(5-hexenyl)phenoxy group, 4-(5-hexenyl)phenoxy group, 2-nitrophenoxy group, 3-nitrophenoxy group, 4-nitrophenoxy group, 2,3-dinitrophenoxy group, 2,4-dinitrophenoxy group, 2,4,6-trinitrophenoxy group, 2-
- 25 biphenylyloxy group, 3-biphenylyloxy group, 4-biphenylyloxy group, 2-dimethylaminophenoxy group, 3-dimethylaminophenoxy group, 4-dimethylaminophenoxy group, 2-diethylaminophenoxy group, 3-diethylamino-

- phenoxy group, 4-diethylaminophenoxy group, 2-di-(n-propyl)aminophenoxy group, 3-di-(n-propyl)aminophenoxy group, 4-di-(n-propyl)aminophenoxy group, 2-diphenylaminophenoxy group, 3-diphenylaminophenoxy
- 5 group, 4-diphenylaminophenoxy group, 2-acetylaminophenoxy group, 3-acetylaminophenoxy group, 4-acetylaminophenoxy group, 2-propionylaminophenoxy group, 3-propionylaminophenoxy group, 4-propionylaminophenoxy group, 2-butyrylaminophenoxy group, 3-
- 10 butyrylaminophenoxy group, 4-butyrylaminophenoxy group, 4-pentanoylaminophenoxy group, 4-hexanoylaminophenoxy group, 3-(N-methyl-N-phenylamino)phenoxy group, 2-(N-acetyl-N-methylamino)phenoxy group, 2-carbamoylaminophenoxy group, 3-carbamoylaminophenoxy group, 4-
- 15 carbamoylaminophenoxy group, 4-(N-acetyl-N-phenylamino)phenoxy group, 4-acetylmethylphenoxy group, 4-propionylmethylphenoxy group, 4-n-butyrylmethylphenoxy group, 4-(2-acetylethyl)phenoxy group, 4-(3-acetylpropyl)phenoxy group, 4-(4-acetylbutyl)phenoxy
- 20 group, 4-(5-acetylpentyl)phenoxy group, 4-(6-acetylhexyl)phenoxy group, 2-hydroxyphenoxy group, 3-hydroxyphenoxy group, 4-hydroxyphenoxy group, 2,4-dihydroxyphenoxy group, 2,4,6-trihydroxyphenoxy group, 2-hydroxy-3-chlorophenoxy group, 2-fluoro-3-hydroxy-
- 25 phenoxy group, 2-fluoro-4-hydroxyphenoxy group, 4-methoxycarbonylmethylphenoxy group, 4-ethoxycarbonylmethylphenoxy group, 4-n-propoxycarbonylmethylphenoxy group, 4-(2-ethoxycarbonylethyl)phenoxy group, 4-(3-

- ethoxycarbonylpropyl)phenoxy group, 4-(4-ethoxycarbonylbutyl)phenoxy group, 4-(5-ethoxycarbonylpentyl)phenoxy group, 4-(6-ethoxycarbonylhexyl)phenoxy group, 2-benzylphenoxy group, 3-benzylphenoxy group, 4-benzylphenoxy group, 2-(2-phenylethyl)phenoxy group, 3-(2-phenylethyl)phenoxy group, 4-(2-phenylethyl)phenoxy group, 2-(3-phenylpropyl)phenoxy group, 3-(3-phenylpropyl)phenoxy group, 4-(3-phenylpropyl)phenoxy group, 2-(4-phenylbutyl)phenoxy group, 3-(4-phenylbutyl)phenoxy group, 4-(4-phenylbutyl)phenoxy group, 2-(5-phenylpentyl)phenoxy group, 3-(5-phenylpentyl)phenoxy group, 4-(5-phenylpentyl)phenoxy group, 2-(6-phenylhexyl)phenoxy group, 3-(6-phenylhexyl)phenoxy group, 4-(6-phenylhexyl)phenoxy group, 2-acetylphenoxy group, 3-acetylphenoxy group, 4-acetylphenoxy group, 4-n-propionylphenoxy group, 4-n-butyrylphenoxy group, 4-n-pentanoylphenoxy group, 4-n-hexanoylphenoxy group, 2-methylthiophenoxy group, 3-methylthiophenoxy group, 4-methylthiophenoxy group, 4-ethylthiophenoxy group, 4-n-propylthiophenoxy group, 4-isopropylthiophenoxy group, 4-n-butylthiophenoxy group, 4-tert-butylthiophenoxy group, 4-n-pentylthiophenoxy group, 4-n-hexylthiophenoxy group, 2,4-dimethylthiophenoxy group, 3,4,5-dimethylthiophenoxy group, 2-(1,2,4-triazol-1-yl)phenoxy group, 3-(1,2,4-triazolyl-1-yl)phenoxy group, 4-(1,2,4-triazol-1-yl)phenoxy group, 2-(3-isoxazolyl)phenoxy group, 3-(4-isoxazolyl)phenoxy group, 4-(5-isoxazolyl)phenoxy

- group, 2-(1-imidazolyl)phenoxy group, 3-(1-imidazolyl)-
 phenoxy group, 4-(1-imidazolyl)phenoxy group, 2-(2-
 benzothiazolyl)phenoxy group, 3-(2-benzothiazolyl)-
 phenoxy group, 4-(2-benzothiazolyl)phenoxy group, 2-
 5 (2H-benzotriazol-2-yl)phenoxy group, 3-(2H-
 benzotriazol-2-yl)phenoxy group, 4-(2H-benzotriazol-2-
 yl)phenoxy group, 2-(1-pyrrolyl)phenoxy group, 3-(1-
 pyrrolyl)phenoxy group, 4-(1-pyrrolyl)phenoxy group, 2-
 (2-benzoxazolyl)phenoxy group, 3-(2-benzoxazolyl)-
 10 phenoxy group, 4-(2-benzoxazolyl)phenoxy group, 2-(1-
 piperazinyl)phenoxy group, 3-(1-piperazinyl)phenoxy
 group, 4-(1-piperazinyl)phenoxy group, 4-(4-
 methoxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-
 ethoxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-n-
 15 propoxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-n-
 butoxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-n-
 pentyloxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-n-
 hexyloxycarbonyl-1-piperazinyl)phenoxy group, 4-(4-
 benzyl-1-piperazinyl)phenoxy group, 4-(4-(2-phenethyl)-
 20 1-piperazinyl)phenoxy group, 4-(4-(3-phenylpropyl)-1-
 piperazinyl)phenoxy group, 4-(4-(4-phenylbutyl)-1-
 piperazinyl)phenoxy group, 4-(4-(5-phenylpentyl)-1-
 piperazinyl)phenoxy group, 4-(4-(6-phenylhexyl)-1-
 piperazinyl)phenoxy group, 4-[4-(2-fluorobenzyl)-1-
 25 piperazinyl]phenoxy group, 4-[4-(3-fluorobenzyl)-1-
 piperazinyl]phenoxy group, 4-[4-(4-fluorobenzyl)-1-
 piperazinyl]phenoxy group, 4-[4-(2-chlorobenzyl)-1-
 piperazinyl]phenoxy group, 4-[4-(3-chlorobenzyl)-1-

- piperazinyl]phenoxy group, 4-[4-(4-chlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2,3-dichlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2,4-dichlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3,4-dichlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3,5-dichlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3,4,5-trichlorobenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2-trifluoromethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3-trifluoromethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-trifluoromethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-methylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3,4-dimethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2,4,6-trimethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2-pentafluoroethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3-pentafluoroethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-pentafluoroethylbenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2-trifluoromethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3-trifluoromethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-trifluoromethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-methoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3,4-dimethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2,4,6-trimethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(2-pentafluoroethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(3-pentafluoroethoxybenzyl)-1-piperazinyl]phenoxy group, 4-[4-(4-pentafluoroethoxybenzyl)-1-piperazinyl]phenoxy group,

- 4-(4-[2-(4-trifluoromethoxyphenyl)ethyl]-1-piperazinyl}phenoxy group, 4-(4-[3-(4-trifluoromethoxyphenyl)propyl]-1-piperazinyl}phenoxy group, 4-(4-[4-(4-trifluoromethoxyphenyl)butyl]-1-piperazinyl}phenoxy
- 5 group, 4-(4-[5-(4-trifluoromethoxyphenyl)pentyl]-1-piperazinyl}phenoxy group, 4-(4-[6-(4-trifluoromethoxyphenyl)hexyl]-1-piperazinyl}phenoxy group, 4-(4-[2-(4-trifluoromethylphenyl)ethyl]-1-piperazinyl}phenoxy
- 10 group, 4-(4-[3-(4-trifluoromethylphenyl)propyl]-1-piperazinyl}phenoxy group, 4-(4-[4-(4-trifluoromethylphenyl)butyl]-1-piperazinyl}phenoxy group, 4-(4-[5-(4-trifluoromethylphenyl)pentyl]-1-piperazinyl}phenoxy
- group, 4-(4-[6-(4-trifluoromethylphenyl)hexyl]-1-piperazinyl}phenoxy group, 2-piperidinophenoxy group,
- 15 3-piperidinophenoxy group, 4-piperidinophenoxy group, 2-(4-amino-1-piperidyl)phenoxy group, 3-(4-amino-1-piperidyl)phenoxy group, 4-(4-amino-1-piperidyl)phenoxy
- group, 4-(4-methylamino-1-piperidyl)phenoxy group, 4-(4-ethylamino-1-piperidyl)phenoxy group, 4-(4-n-
- 20 propylamino-1-piperidyl)phenoxy group, 4-(4-dimethylamino-1-piperidyl)phenoxy group, 4-(4-diethylamino-1-piperidyl)phenoxy group, 4-(4-di-n-propylamino-1-piperidyl)phenoxy group, 4-(4-phenyl-
- amino-1-piperidyl)phenoxy group, 4-[4-(N-phenyl-N-
- 25 methylamino)-1-piperidyl]phenoxy group, 4-[4-(2-fluorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(3-fluorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-fluorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(2-

- chlorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(3-chlorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-chlorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(2,3-dichlorophenylamino)-1-piperidyl]phenoxy group, 4-
- 5 [4-(2,4-dichlorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(3,4-dichlorophenylamino)-1-piperidyl]phenoxy group, 4-[4-(3,5-dichlorophenylamino)-1-piperidyl]-phenoxy group, 4-[4-(2-trifluoromethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2-methylphenylamino)-1-
- 10 piperidyl]phenoxy group, 4-[4-(2,3-dimethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2-trifluoromethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2,4,6-trimethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-trifluoromethylphenylamino)-1-piperidyl]phenoxy
- 15 group, 4-[4-(2-pentafluoroethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(3-pentafluoroethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-pentafluoroethylphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2-trifluoromethoxyphenylamino)-1-piperidyl]-
- 20 phenoxy group, 4-[4-(2-methoxyphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2,3-dimethoxyphenylamino)-1-piperidyl]phenoxy group, 4-[4-(2,4,6-trimethoxyphenylamino)-1-piperidyl]phenoxy group, 4-{4-[N-methyl-N-(2,4,6-trimethoxyphenylamino)]-1-
- 25 piperidyl}phenoxy group, 4-{4-[N-methyl-N-(3,4-dimethylphenylamino)]-1-piperidyl}phenoxy group, 4-[4-(3-trifluoromethoxyphenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-trifluoromethoxyphenylamino)-1-

piperidyl]phenoxy group, 4-[4-(2-pentafluoroethoxy-phenylamino)-1-piperidyl]phenoxy group, 4-[4-(3-pentafluoroethoxyphenylamino)-1-piperidyl]phenoxy group, 4-[4-(4-pentafluoroethoxyphenylamino)-1-piperidyl]phenoxy group, 2-carbamoylphenoxy group, 3-carbamoylphenoxy group, 4-carbamoylphenoxy group or the like.

Examples of a phenyl group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a phenoxy group (which may be substituted on the phenyl ring by at least one group selected from a group consisting of a halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group) include a phenyl group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a phenoxy group (which may be substituted on the phenyl ring by 1 to 5, preferably 1 to 3 groups selected from a group consisting of a halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), halogen atom, halogen-substituted or unsubstituted C1-6 alkyl group and halogen-substituted or unsubstituted C1-6 alkoxy group as a substituent), for example, a

- phenyl group, 2-fluorophenyl group, 3-fluorophenyl group, 4-fluorophenyl group, 2-chlorophenyl group, 3-chlorophenyl group, 4-chlorophenyl group, 2-bromophenyl group, 3-bromophenyl group, 4-bromophenyl group, 2-
- 5 iodophenyl group, 3-iodophenyl group, 4-iodophenyl group, 2,3-difluorophenyl group, 3,4-difluorophenyl group, 3,5-difluorophenyl group, 2,4-difluorophenyl group, 2,6-difluorophenyl group, 2,3-dichlorophenyl group, 3,4-dichlorophenyl group, 3,5-dichlorophenyl
- 10 group, 2,4-dichlorophenyl group, 2,6-dichlorophenyl group, 2,3,4-trifluorophenyl group, 3,4,5-trifluorophenyl group, 3,4,5-trichlorophenyl group, 2,4,6-trifluorophenyl group, 2,3,4,5,6-pentafluorophenyl group, 2,4,6-trichlorophenyl group, 2-fluoro-4-
- 15 chlorophenyl group, 2-fluoro-4-bromophenyl group, 3-fluoro-4-chlorophenyl group, 2-methylphenyl group, 3-methylphenyl group, 4-methylphenyl group, 2-methyl-3-chlorophenyl group, 3-methyl-4-chlorophenyl group, 2-chloro-4-methylphenyl group, 2-methyl-3-fluorophenyl
- 20 group, 2-trifluoromethylphenyl group, 3-trifluoromethylphenyl group, 4-trifluoromethylphenyl group, 2-pentafluoroethylphenyl group, 3-pentafluoroethylphenyl group, 4-pentafluoroethylphenyl group, 2-isopropylphenyl group, 3-isopropylphenyl group, 4-isopropyl-
- 25 phenyl group, 2-tert-butylphenyl group, 3-tert-butylphenyl group, 4-tert-butylphenyl group, 2-sec-butylphenyl group, 3-sec-butylphenyl group, 4-sec-butylphenyl group, 2-n-heptafluoropropylphenyl group,

- 3-n-heptafluoropropylphenyl group, 4-n-heptafluoro-
 propylphenyl group, 4-pentylphenyl group, 4-hexylphenyl
 group, 2-fluoro-4-bromophenyl group, 4-chloro-3-
 fluorophenyl group, 2,3,4-trichlorophenyl group, 4-n-
 5 butylphenyl group, 2,4-dimethylphenyl group, 2,3-
 dimethylphenyl group, 2,4-dimethylphenyl group, 2,6-
 dimethylphenyl group, 3,5-dimethylphenyl group, 2,5-
 dimethylphenyl group, 2,4,6-trimethylphenyl group, 3,5-
 ditrifluoromethylphenyl group, 4-n-butoxyphenyl group,
 10 2,4-dimethoxyphenyl group, 2,3-dimethoxyphenyl group,
 2,6-dimethoxyphenyl group, 3,5-dimethoxyphenyl group,
 2,5-dimethoxyphenyl group, 3,5-ditrifluoromethoxyphenyl
 group, 2,4,6-trimethoxyphenyl group, 3-chloro-4-
 methoxyphenyl group, 2-chloro-4-trifluoromethoxyphenyl
 15 group, 3-methyl-4-fluorophenyl group, 4-bromo-3-
 trifluoromethylphenyl group, 2-methylphenyl group, 3-
 methylphenyl group, 4-methoxyphenyl group, 2-methoxy-3-
 chlorophenyl group, 2-fluoro-3-methoxyphenyl group, 2-
 fluoro-4-methoxyphenyl group, 2,6-dimethoxyphenyl
 20 group, 2-trifluoromethoxyphenyl group, 3-trifluoro-
 methoxyphenyl group, 4-trifluoromethoxyphenyl group, 2-
 pentafluoroethoxyphenyl group, 3-pentafluoroethoxy-
 phenyl group, 4-pentafluoroethoxyphenyl group, 2-
 isopropoxyphenyl group, 3-isopropoxyphenyl group, 4-
 25 isopropoxyphenyl group, 2-tert-butoxyphenyl group, 3-
 tert-butoxyphenyl group, 4-tert-butoxyphenyl group, 2-
 sec-butoxyphenyl group, 3-sec-butoxyphenyl group, 4-
 sec-butoxyphenyl group, 2-n-heptafluoropropoxyphenyl

group, 3-n-heptafluoropropoxyphenyl group, 4-n-
heptafluoropropoxyphenyl group, 4-pentyloxyphenyl
group, 4-hexyloxyphenyl group, 2-phenoxyphenyl group,
3-phenoxyphenyl group, 4-phenoxyphenyl group, 2-(2-
5 chlorophenoxy)phenyl group, 2-(3-chlorophenoxy)phenyl
group, 2-(4-chlorophenoxy)phenyl group, 3-(2-
chlorophenoxy)phenyl group, 3-(3-chlorophenoxy)phenyl
group, 3-(4-chlorophenoxy)phenyl group, 4-(2-
chlorophenoxy)phenyl group, 4-(3-chlorophenoxy)phenyl
10 group, 4-(4-chlorophenoxy)phenyl group, 2-(2-
trifluoromethylphenoxy)phenyl group, 2-(2-methyl-
phenoxy)phenyl group, 2-(3-trifluoromethylphenoxy)-
phenyl group, 2-(4-trifluoromethylphenoxy)phenyl group,
3-(2-trifluoromethylphenoxy)phenyl group, 3-(3-
15 trifluoromethylphenoxy)phenyl group, 3-(4-trifluoro-
methylphenoxy)phenyl group, 4-(2-trifluoromethyl-
phenoxy)phenyl group, 4-(3-trifluoromethylphenoxy)-
phenyl group, 4-(4-trifluoromethylphenoxy)phenyl group,
2-(2-trifluoromethoxyphenoxy)phenyl group, 2-(3-
20 trifluoromethoxyphenoxy)phenyl group, 2-(4-trifluoro-
methoxyphenoxy)phenyl group, 2-(4-methoxyphenoxy)phenyl
group, 2-(2,4-dimethylphenoxy)phenyl group, 2-(2,4,6-
trimethylphenoxy)phenyl group, 2-(3,4-dimethoxy-
phenoxy)phenyl group, 2-(3,4,5-trimethoxyphenoxy)phenyl
25 group, 3-(2-trifluoromethoxyphenoxy)phenyl group, 3-(3-
trifluoromethoxyphenoxy)phenyl group, 3-(4-trifluoro-
methoxyphenoxy)phenyl group, 4-(2-trifluoromethoxy-
phenoxy)phenyl group, 4-(3-trifluoromethoxyphenoxy)-