different and selected from the following Substituent Group A4),
R^5 and Substituent Group A4 are the same or different and each represent a halogen atom, a lower alkyl group, a lower cycloalkyl group, a lower alkoxy group, a lower cycloalkoxy group, an aryl group, a heteroaryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, lower alkoxy group, lower cycloalkoxy group, aryl group, heteroaryl group or heterocyclyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the following Substituent Group A3),
Substituent Group A3 represents a halogen atom, a nitro group, a cyano group, a hydroxy group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a nitro group, a cyano group, a hydroxy group, a lower cycloalkyl group, an aryl group, a heterocyclyl group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower cycloalkoxy group, an aryloxy group, an aryl-lower alkoxy group, a heterocyclyloxy group, a heterocyclyl-lower alkoxy group, an amino group, a mono-lower alkylamino group, a mono-lower cycloalkylamino group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group, a heterocyclyl group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower cycloalkoxy group, an aryloxy group, an aryl-lower alkoxy group, a heterocyclyloxy group, a heterocyclyl-lower alkoxy group, an amino group, a mono-lower alkylamino group, a mono-lower cycloalkylamino group, a di-lower alkylamino group or a lower alkoxycarbonyl group,
V represents a single bond or a lower alkylene group, and
W represents a single bond, an ether bond or a lower alkylene group (wherein the lower alkylene group may contain an ether bond)},
a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 3]

The 2-pyridone compound according to claim 1 represented by the formula [5]:

[Ka 9]

Substituent Group A1); and R^{Z6} represents a hydrogen atom or a lower alkyl group; or

when $-Z^B-$ represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

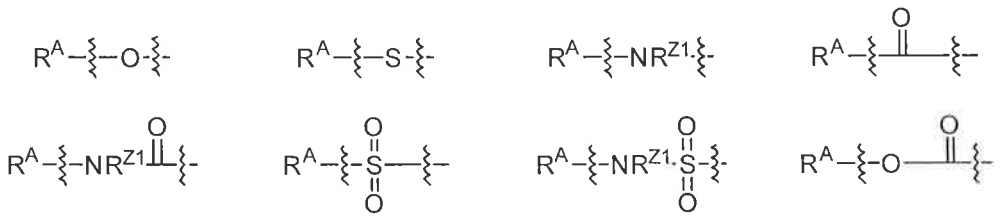
[Claim 6]

The 2-pyridone compound according to claim 5, wherein

R^1 represents R^A-Z^A-,

wherein $-Z^A-$ represents a single bond or represents any of the following formulas [9]:

[Ka 13]



[9]

when $-Z^A-$ represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of

a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); and R^{Z1} represents a hydrogen atom or a lower alkyl group; or

when $-Z^A-$ represents a single bond,

R^A represents a hydrogen atom or a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group);

R^2 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms) or a lower alkoxy group,

R^4 represents R^B-Z^B-,

wherein $-Z^B-$ represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, a heterocyclyl group, a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group and an oxo group), and

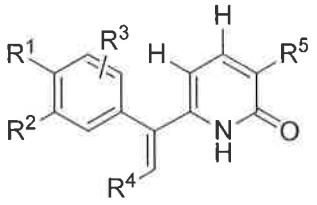
R^5 represents a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group or an aryl group,

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 7]

The 2-pyridone compound according to claim 4 represented by the formula [10]:

[Ka 14]



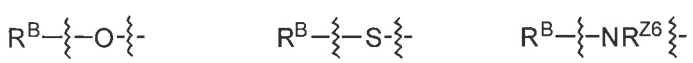
[10]

{wherein in the formula [10],

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 15]



[8],

when -Z^B- represents any of the formulas [8],

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); and R^{Z6} represents a hydrogen atom or a lower alkyl group; or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a

solvate thereof.

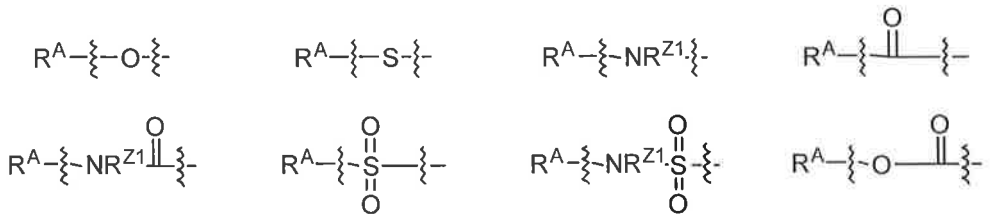
[Claim 8]

The 2-pyridone compound according to claim 7, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 16]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); and R^{Z1} represents a hydrogen atom or a lower alkyl group; or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group or a heterocyclyl group;

R^2 represents a hydrogen atom, a halogen atom, a carbamoyl group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group) or a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms),

R^3 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkoxy group or a hydroxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

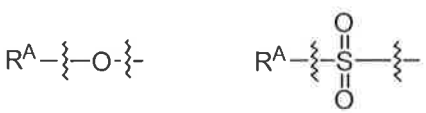
R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group and an oxo group), a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group, a lower cycloalkylcarbonyl group, a heterocyclylcarbonyl group, a lower alkylsulfonyl group and an oxo group), and
R^5 represents a halogen atom, a carbamoyl group, a lower alkanoyl group, an amino group, a di-lower alkylamino group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one hydroxy group), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), an aryl group, a heteroaryl group or an aryloxy group (wherein the aryloxy group is unsubstituted or substituted with one group selected from the group consisting of a halogen atom and a lower alkyl group),
a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 9]

The 2-pyridone compound according to claim 8, wherein

R^1 represents R^A-Z^A-,

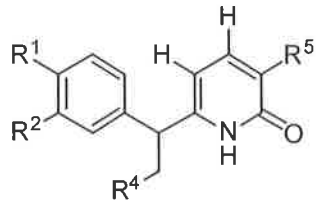
wherein -Z^A- represents a single bond or represents any of the following formulas [11]:
[Ka 17]



[11],

when -Z^A- represents any of the formulas [11],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted



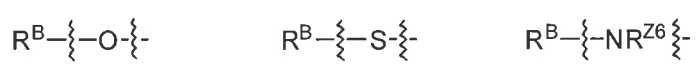
[14]

{wherein in the formula [14],

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 21]



[8],

when -Z^B- represents any of the formulas [8],

R^B represents a lower alkyl group, a lower cycloalkyl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); and R^{Z6} represents a hydrogen atom or a lower alkyl group; or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

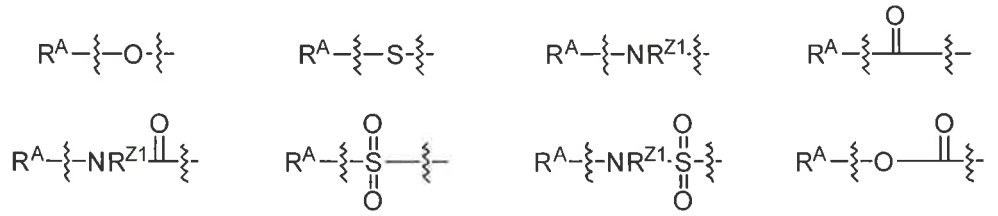
[Claim 15]

The 2-pyridone compound according to claim 14, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 22]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); and R^{Z1} represents a hydrogen atom or a lower alkyl group; or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom or a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group);

R^2 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms) or a lower alkoxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

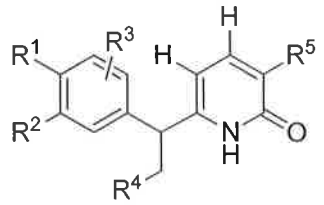
R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, a heterocyclyl group, a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein

the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group and an oxo group), and
R^5 represents a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group or an aryl group,
a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 16]

The 2-pyridone compound according to claim 13 represented by the formula [15]:

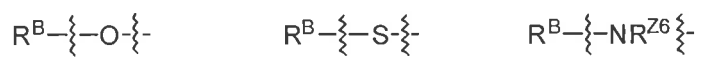
[Ka 23]



[15]

{wherein in the formula [15],
R^4 represents R^B-Z^B-,
wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 24]



[8],

when -Z^B- represents any of the formulas [8],
R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); and R^{Z6} represents a hydrogen atom or a lower alkyl group; or
when -Z^B- represents a single bond,
R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);
Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group,

an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

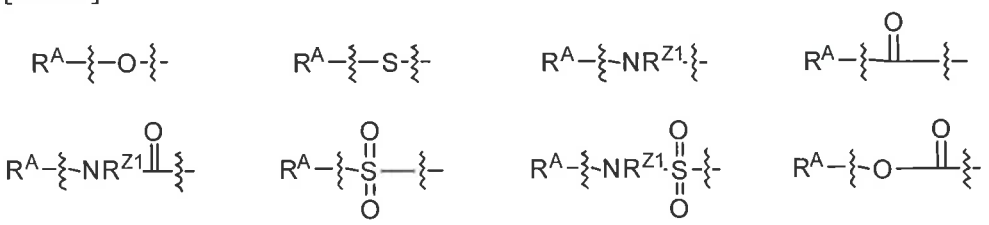
[Claim 17]

The 2-pyridone compound according to claim 16, wherein

R1 represents RA-ZA-,

wherein -ZA- represents a single bond or represents any of the following formulas [9]:

[Ka 25]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); and R^{Z1} represents a hydrogen atom or a lower alkyl group; or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a

lower alkoxy group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group or a heterocyclyl group;

R^2 represents a hydrogen atom, a halogen atom, a carbamoyl group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group) or a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms),

R^3 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkoxy group or a hydroxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group and an oxo group), a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group, a lower cycloalkylcarbonyl group, a heterocyclylcarbonyl group, a lower alkylsulfonyl group and an oxo group), and

R^5 represents a halogen atom, a carbamoyl group, a lower alkanoyl group, an amino group, a di-lower alkylamino group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one hydroxy group), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), an aryl group, a heteroaryl group or an aryloxy group (wherein the aryloxy group is unsubstituted or substituted with one group selected from the group consisting of a halogen atom and a lower alkyl group),

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a

or treating a disease or condition that can be improved by a glucokinase activating effect.

[Claim 27]

The medicine according to claim 25, wherein the medicine is a prophylactic or therapeutic agent for diabetes or obesity.

[Claim 28]

The 2-pyridone compound according to claim 20,

wherein R^1 represents R^A-Z^A-, wherein -Z^A- is a single bond, and R^A is a C_{1-2} alkyl group which is unsubstituted or substituted with 1 to 3 fluorine atoms;

R^2 is a hydrogen atom;

R^3 is a hydrogen atom, and

R^5 is a cyclopropyl group,

a tautomer or stereoisomer of the compound, or a pharmaceutically acceptable salt thereof, or a solvate thereof.

different and selected from the following Substituent Group A4),

R^5 and Substituent Group A4 are the same or different and each represent a halogen atom, a lower alkyl group, a lower cycloalkyl group, a lower alkoxy group, a lower cycloalkoxy group, an aryl group, a heteroaryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, lower alkoxy group, lower cycloalkoxy group, aryl group, heteroaryl group or heterocyclyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the following Substituent Group A3),

Substituent Group A3 represents a halogen atom, a nitro group, a cyano group, a hydroxy group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a nitro group, a cyano group, a hydroxy group, a lower cycloalkyl group, an aryl group, a heterocyclyl group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower cycloalkoxy group, an aryloxy group, an aryl-lower alkoxy group, a heterocyclyloxy group, a heterocyclyl-lower alkoxy group, an amino group, a mono-lower alkylamino group, a mono-lower cycloalkylamino group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group, a heterocyclyl group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower cycloalkoxy group, an aryloxy group, an aryl-lower alkoxy group, a heterocyclyloxy group, a heterocyclyl-lower alkoxy group, an amino group, a mono-lower alkylamino group, a mono-lower cycloalkylamino group, a di-lower alkylamino group or a lower alkoxycarbonyl group,

V represents a single bond or a lower alkylene group, and

W represents a single bond, an ether bond or a lower alkylene group (wherein the lower alkylene group may contain an ether bond)},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 3]

The 2-pyridone compound according to claim 1 or 2 represented by the formula [5]:

[Ka 9]

Substituent Group A1); or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

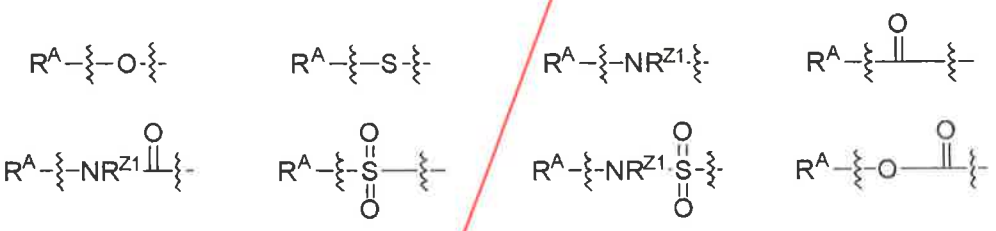
[Claim 6]

The 2-pyridone compound according to claim 5, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 13]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of

a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); or

when $-Z^A-$ represents a single bond,

R^A represents a hydrogen atom or a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group);

R^2 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms) or a lower alkoxy group,

R^4 represents R^B-Z^B-,

wherein $-Z^B-$ represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, a heterocyclyl group, a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group and an oxo group), and

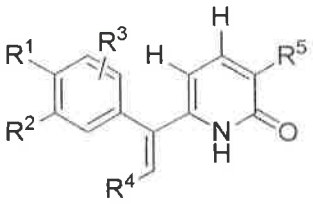
R^5 represents a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group or an aryl group,

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 7]

The 2-pyridone compound according to claim 4 represented by the formula [10]:

[Ka 14]



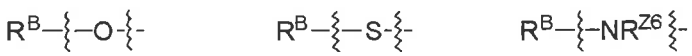
[10]

{wherein in the formula [10],

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 15]



[8],

when -Z^B- represents any of the formulas [8],

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a

solvate thereof.

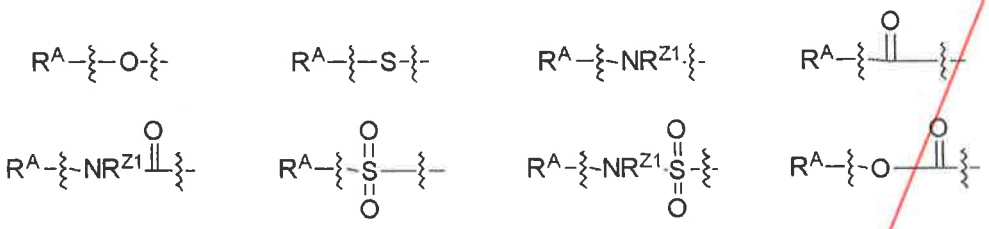
[Claim 8]

The 2-pyridone compound according to claim 7, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 16]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group or a heterocyclyl group;

R^2 represents a hydrogen atom, a halogen atom, a carbamoyl group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group) or a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms),

R^3 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkoxy group or a hydroxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a lower alkyl group and an oxo group), a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group, a lower cycloalkylcarbonyl group, a heterocyclylcarbonyl group, a lower alkylsulfonyl group and an oxo group), and

R^5 represents a halogen atom, a carbamoyl group, a lower alkanoyl group, an amino group, a di-lower alkylamino group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one hydroxy group), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), an aryl group, a heteroaryl group or an aryloxy group (wherein the aryloxy group is unsubstituted or substituted with one group selected from the group consisting of a halogen atom and a lower alkyl group),

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 9]

The 2-pyridone compound according to claim 8, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [11]:

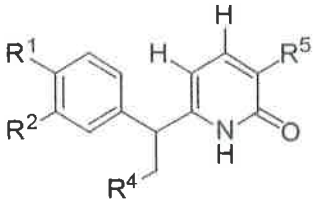
[Ka 17]



[11],

when -Z^A- represents any of the formulas [11],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted



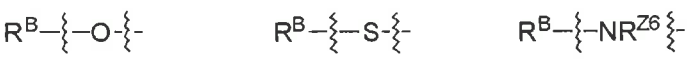
[14]

{wherein in the formula [14],

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 21]



[8]

when -Z^B- represents any of the formulas [8],

R^B represents a lower alkyl group, a lower cycloalkyl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

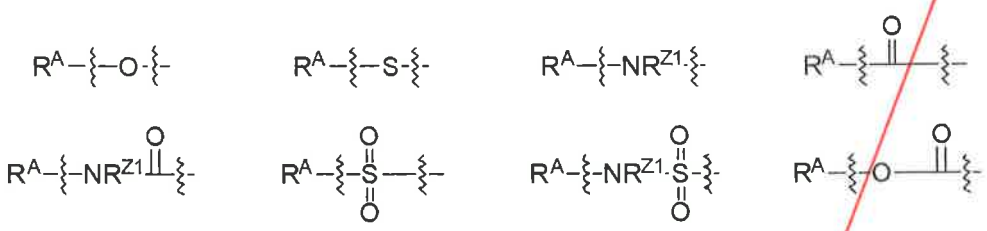
[Claim 15]

The 2-pyridone compound according to claim 14, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 22]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom or a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a lower alkoxy group and a di-lower alkylamino group);

R^2 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms) or a lower alkoxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, a heterocyclyl group, a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein

the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group and an oxo group), and

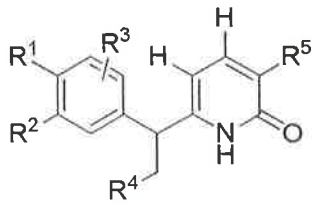
R^5 represents a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group or an aryl group,

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

[Claim 16]

The 2-pyridone compound according to claim 13 represented by the formula [15]:

[Ka 23]



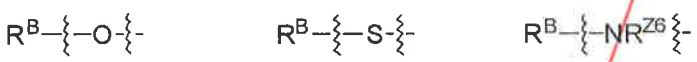
[15]

{wherein in the formula [15],

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond or represents any of the following formulas [8]:

[Ka 24]



[8]

when -Z^B- represents any of the formulas [8],

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1); or

when -Z^B- represents a single bond,

R^B represents a lower alkyl group, a lower cycloalkyl group, an aryl group or a heterocyclyl group (wherein the lower alkyl group, lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A1);

Substituent Group A1 represents a halogen atom, a lower alkyl group, a lower cycloalkyl group,

an aryl group, a heterocyclyl group (wherein the lower cycloalkyl group, aryl group or heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the following Substituent Group A2), a hydroxy group, a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkylthio group, an amino group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group or an oxo group, and

Substituent Group A2 represents a lower alkyl group, a lower alkoxy group, a lower alkylthio group, a mono-lower alkylamino group, a di-lower alkylamino group, a lower alkanoyl group, a lower alkylsulfonyl group, a lower alkoxycarbonyl group, a lower alkanoylamino group, a hydroxy group, a halogen atom, an oxo group or an amino group},

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a solvate thereof.

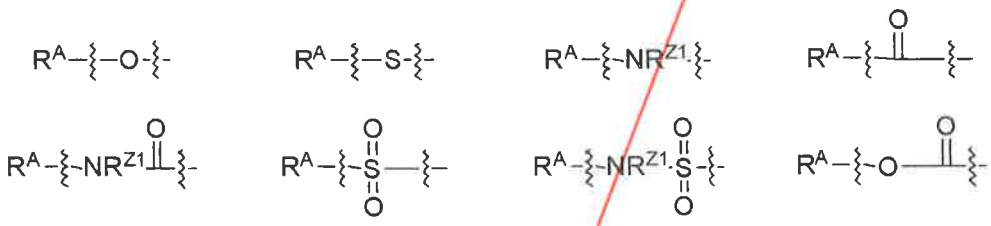
[Claim 17]

The 2-pyridone compound according to claim 16, wherein

R^1 represents R^A-Z^A-,

wherein -Z^A- represents a single bond or represents any of the following formulas [9]:

[Ka 25]



[9]

when -Z^A- represents any of the formulas [9],

R^A represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a mono-lower alkylamino group and a di-lower alkylamino group), a lower cycloalkyl group or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with one lower alkyl group); or

when -Z^A- represents a single bond,

R^A represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom, a hydroxy group, a heterocyclyl group, a

lower alkoxy group and a di-lower alkylamino group), a lower cycloalkyl group, an aryl group or a heterocyclyl group;

R^2 represents a hydrogen atom, a halogen atom, a carbamoyl group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group) or a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms),

R^3 represents a hydrogen atom, a halogen atom, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 halogen atoms), a lower alkoxy group or a hydroxy group,

R^4 represents R^B-Z^B-,

wherein -Z^B- represents a single bond and

R^B represents a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower cycloalkyl group, an aryl group, a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a lower alkyl group and an oxo group), a hydroxy group and a lower alkanoylamino group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one group selected from the group consisting of a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with one hydroxy group), a hydroxy group and an oxo group) or a heterocyclyl group (wherein the heterocyclyl group is unsubstituted or substituted with 1 to 2 groups which may be the same or different and selected from the group consisting of a lower alkyl group, a hydroxy group, a lower alkanoyl group, a lower cycloalkylcarbonyl group, a heterocyclylcarbonyl group, a lower alkylsulfonyl group and an oxo group), and

R^5 represents a halogen atom, a carbamoyl group, a lower alkanoyl group, an amino group, a di-lower alkylamino group, a lower alkyl group (wherein the lower alkyl group is unsubstituted or substituted with 1 to 3 groups which may be the same or different and selected from the group consisting of a halogen atom and a hydroxy group), a lower cycloalkyl group (wherein the lower cycloalkyl group is unsubstituted or substituted with one hydroxy group), a lower alkoxy group (wherein the lower alkoxy group is unsubstituted or substituted with 1 to 3 halogen atoms), an aryl group, a heteroaryl group or an aryloxy group (wherein the aryloxy group is unsubstituted or substituted with one group selected from the group consisting of a halogen atom and a lower alkyl group),

a tautomer or stereoisomer of the compound, a pharmaceutically acceptable salt thereof, or a

or treating a disease or condition that can be improved by a glucokinase activating effect.

[Claim 27]

The medicine according to claim 25, wherein the medicine is a prophylactic or therapeutic agent for diabetes or obesity.