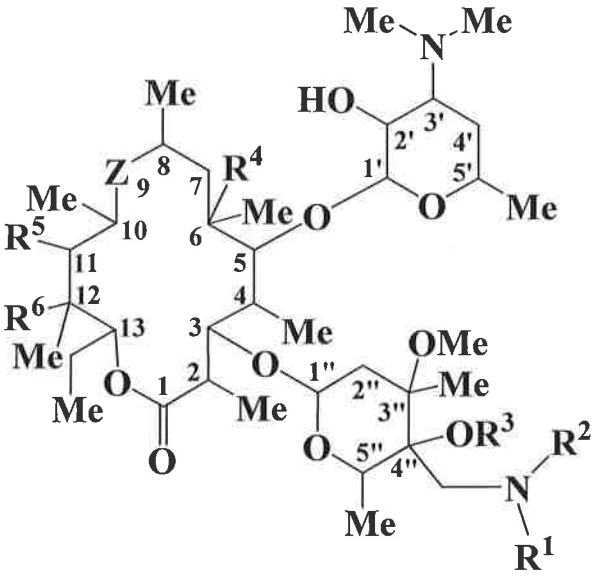
CLAIMS

[Claim 1] A compound represented by the formula (I):

[Formula 1]



(I)

wherein, in the formula,

Me represents methyl group,

R^1 represents ~~hydrogen atom,~~ a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with one or two substituents selected from hydroxy group, a $C_{1\text{-}6}$ alkoxy group, amino group, a $C_{1\text{-}6}$ alkylamino group, and a group represented by the formula $-NR^{78}COR^{79}$, or the formula $-NR^{80}SO_2R^{81}$, R^{78} and R^{80}, which may be the same or different, represent hydrogen atom, or a $C_{1\text{-}6}$ alkyl group, and R^{79} and R^{81}, which may be the same or different, represent a $C_{1\text{-}6}$ alkyl group), or a $C_{1\text{-}6}$ alkylsulfonyl group,

R^2 represents ~~hydrogen atom,~~ a 4- to 8-membered saturated heterocyclic group (the saturated heterocyclic group may be substituted with one or two substituents selected from a $C_{7\text{-}12}$ aralkyl group, and a $C_{1\text{-}6}$ alkyl group), a $C_{1\text{-}6}$ alkanoyl group (the $C_{1\text{-}6}$ alkanoyl group may be substituted with amino group, or a $C_{1\text{-}6}$ alkylamino group), or a $C_{1\text{-}6}$ alkyl group which may be substituted with 1 to 3 substituents selected from the substituent group 1, or

R^1 and R^2 may combine together to form, together with the nitrogen atom to which they bind, a 4- to 8-membered saturated nitrogen-containing heterocyclic group (the saturated nitrogen-containing heterocyclic group may be substituted with 1 to 3

group),

R^3 represents hydrogen atom, or

R^3 and R^1 may combine together to form carbonyl group,

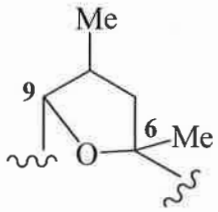
R^4 represents hydroxy group, a $C_{1\text{-}6}$ alkoxy group, or a group represented by the formula $OCONR^{21}R^{22}$ (R^{21} and R^{22}, which may be the same or different, represent hydrogen atom, a $C_{1\text{-}6}$ alkyl group, or a $C_{2\text{-}6}$ alkenyl group substituted with one heteroaryl group),

Z represents a group represented by the formula CHR^{23} (R^{23} represents hydroxy group, or amino group), the formula C(=O), or the formula $C(=N\text{-}OR^{24})$,

R^{24} represents hydrogen atom, a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with a $C_{1\text{-}6}$ alkoxy group, amino group, or a $C_{1\text{-}6}$ alkylamino group), or a 4- to 8-membered saturated heterocyclic group, or

R^4 and Z may combine together to represent, together with the carbon atoms to which they bind, a cyclic structure represented by the formula (II):

[Formula 2]



(II)

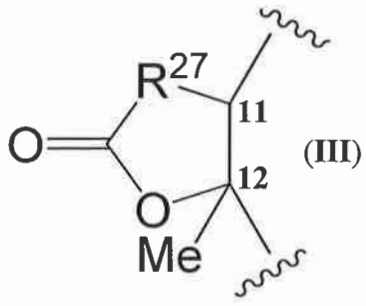
,

~~R^5 represents hydroxy group, a $C_{1\text{-}6}$ alkoxy group, or a group represented bythe formula $OCONR^{25}R^{26}$ (R^{25} and R^{26}, which may be the same or different, represent hydrogen atom, or a $C_{1\text{-}6}$ alkyl group),~~

~~R^6 represents hydrogen atom, or hydroxy group, or~~

R^5 and R^6 ~~may~~ combine together to represent, together with the carbon atoms to which they bind, a cyclic structure represented by the formula (III):

[Formula 3]



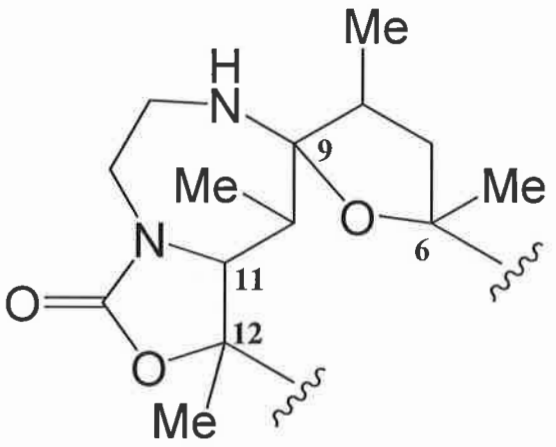
(III)

,

R^{27} represents oxygen atom, or a group represented bythe formula CHR^{28}, or the

the formula (VII):

[Formula 7]



(VII)

,

~~provided that when R^1 and R^3 are both hydrogen atoms, R^4 is methoxy group, Z is a group represented by the formula C(=O), and R^5 and R^6 are both hydroxy groups, R^2 is not 2-aminoethyl group, 2-(N-2-methoxybenzylamino)ethyl group, or 2-(N-isobutyl-N-methoxybenzylamino)ethyl group,~~ or a salt thereof, or a hydrate or a solvate thereof.

[Claim 2] The compound according to claim 1 or a salt thereof, or a hydrate or a solvate thereof, wherein R^1 is ~~hydrogen atom,~~ a $C_{1\text{-}6}$ alkyl group, or a $C_{1\text{-}6}$ alkylsulfonyl group,

R^2 is a 4- to 8-membered saturated heterocyclic group (the saturated heterocyclic group may be substituted with one or two substituents selected from a $C_{7\text{-}12}$ aralkyl group, and a $C_{1\text{-}6}$ alkyl group), a $C_{1\text{-}6}$ alkanoyl group (the $C_{1\text{-}6}$ alkanoyl group may be substituted with amino group, or a $C_{1\text{-}6}$ alkylamino group), or a $C_{1\text{-}6}$ alkyl group which may be substituted with 1 to 3 substituents selected from the substituent group 1, or R^1 and R^2 may combine together to form, together with the nitrogen atom to which they bind, a 4- to 8-membered saturated nitrogen-containing heterocyclic group (the saturated nitrogen-containing heterocyclic group may be substituted with 1 to 3 substituents selected from hydroxy group, amino group, a $C_{1\text{-}6}$ alkylamino group, and a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with amino group, or a $C_{1\text{-}6}$ alkylamino group)), and

R^{38} and R^{39}, which may be the same or different, represent hydrogen atom, a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with a $C_{3\text{-}6}$ cycloalkyl group), a $C_{7\text{-}12}$ aralkyl group (the $C_{7\text{-}12}$ aralkyl group may be substituted with 1 to 3 substituents selected from a halogen atom, a $C_{1\text{-}6}$ alkyl group, and a $C_{1\text{-}6}$ alkoxy group)

or a heteroaralkyl group.

[Claim 3] The compound according to claim 1 or 2 or a salt thereof, or a hydrate or a solvate thereof, wherein R^2 is a $C_{1\text{-}6}$ alkyl group substituted with 1 to 3 substituents selected from the substituent group 1.

[Claim 4] The compound according to claim 1 or 2 or a salt thereof, or a hydrate or a solvate thereof, wherein R^2 is a $C_{1\text{-}6}$ alkyl group substituted with 1 to 3 substituents selected from the substituent group 4, and

the substituent group 4 is a group consisting of hydroxy group, and a group represented by the formula $-NR^{17}R^{18}$.

[Claim 5] The compound according to claim 4 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{17} and R^{18}, which may be the same or different, represent hydrogen atom, or a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with a $C_{3\text{-}6}$ cycloalkyl group).

~~[Claim 6] The compound according to any one of claims 1 to 5 or a salt thereof, or a hydrate or a solvate thereof, wherein R^5 and R^6 combine together to represent, together with the carbon atoms to which they bind, a cyclic structure represented by the formula (III).~~

[Claim ~~7~~6] The compound according to claim ~~6~~ 1 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{27} is a group represented by the formula NR^{29}.

[Claim ~~8~~7] The compound according to claim ~~7~~ 6 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{29} is hydrogen atom, a group represented by the formula $-NR^{30}R^{31}$, the formula $-NR^{32}CO_2R^{35}$, the formula $-NR^{32}SO_2R^{37}$, the formula $-NR^{32}CONR^{38}R^{39}$, or the formula $-NR^{32}SO_2NR^{40}R^{41}$, or a $C_{1\text{-}6}$ alkyl group substituted with 1 to 3 substituents selected from the substituent group 3.

[Claim ~~9~~8] The compound according to claim ~~7~~ 6 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{29} is a $C_{1\text{-}6}$ alkyl group substituted with 1 to 3 substituents selected from the substituent group 5, and

the substituent group 5 is a group consisting of hydroxy group, a $C_{1\text{-}6}$ alkylsulfonyl group, a 4- to 8-membered saturated heterocyclic group (the saturated heterocyclic group may be substituted with a $C_{1\text{-}6}$ alkylsulfonyl group), and a group represented by the formula $-OSO_2NR^{46}R^{47}$, the formula $-NR^{49}SO_2NR^{50}R^{51}$, the formula $-CONR^{59}R^{60}$, the formula $-SO_2NR^{65}R^{66}$, the formula $-NR^{67}SO_2R^{68}$, or the formula $-NR^{69}R^{70}$.

[Claim ~~10~~9] The compound according to claim ~~7~~6 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{29} is a $C_{1\text{-}6}$ alkyl group substituted with 1 to 3 substituents selected from the substituent group 6, and

the substituent group 6 is a group consisting of a $C_{1\text{-}6}$ alkylsulfonyl group, and a group represented by the formula $\text{-}OSO_2NR^{46}R^{47}$, the formula $\text{-}SO_2NR^{65}R^{66}$, or the formula $\text{-}NR^{67}SO_2R^{68}$.

[Claim ~~11~~10] The compound according to claim ~~7~~6 or a salt thereof, or a hydrate or a solvate thereof, wherein R^{29} is a $C_{1\text{-}6}$ alkyl group substituted with a $C_{1\text{-}6}$ alkylsulfonyl group.

[Claim ~~12~~11] The compound according to any one of claims 1 to ~~11~~10 or a salt thereof, or a hydrate or a solvate thereof, wherein R^1 is a $C_{1\text{-}6}$ alkyl group.

[Claim ~~13~~12] The compound according to any one of claims 1 to ~~12~~11 or a salt thereof, or a hydrate or a solvate thereof, wherein R^4 is hydroxy group, or a $C_{1\text{-}6}$ alkoxy group.

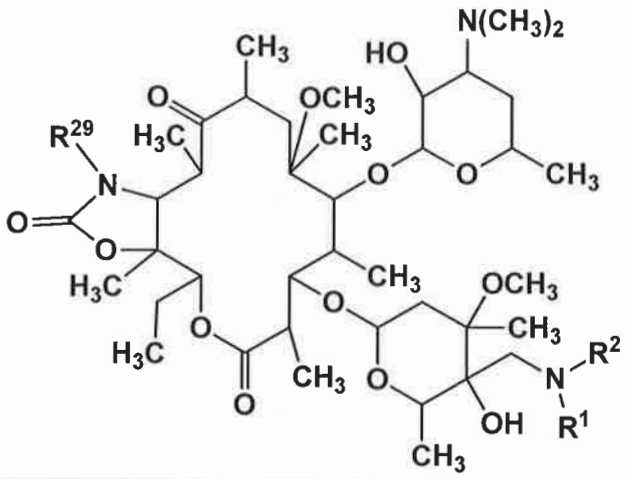
[Claim ~~14~~13] The compound according to any one of claims 1 to ~~12~~11 or a salt thereof, or a hydrate or a solvate thereof, wherein R^4 is methoxy group.

[Claim ~~15~~14] The compound according to any one of claims 1 to ~~14~~13 or a salt thereof, or a hydrate or a solvate thereof, wherein R^3 is hydrogen atom.

[Claim ~~16~~15] The compound according to any one of claims 1 to ~~15~~14 or a salt thereof, or a hydrate or a solvate thereof, wherein Z is a group represented by the formula C(=O), or a group represented by the formula $C(=N\text{-}OR^{24})$.

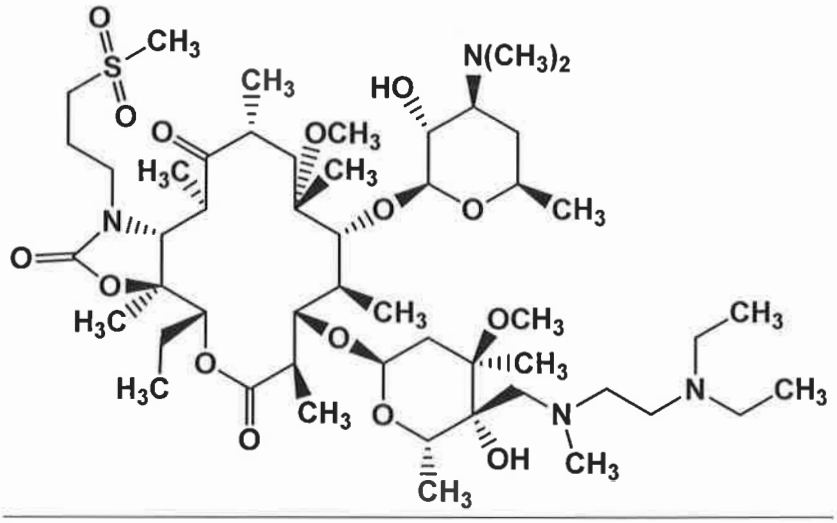
[Claim ~~17~~16] The compound according to any one of claims 1 to ~~15~~14 or a salt thereof, or a hydrate or a solvate thereof, wherein Z is a group represented by the formula C(=O).

[Claim 17] The compound represented by the following formula:



or a salt thereof, or a hydrate or a solvate thereof, wherein R^1 represents a $C_{1\text{-}6}$ alkyl group, R^2 represents a $C_{1\text{-}6}$ alkyl group substituted with hydroxyl group or with a group represented by the formula $-NR^{17}R^{18}$ wherein R^{17} and R^{18}, which may be the same or different, represent hydrogen atom or a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with a $C_{3\text{-}6}$ cycloalkyl group), R^{29} represents a $C_{1\text{-}6}$ alkyl group substituted with a group represented by the formula $-CONR^{59}R^{60}$ wherein R^{59} and R^{60}, which may be the same or different, represent hydrogen atom, a $C_{1\text{-}6}$ alkyl group, phenyl group, a $C_{7\text{-}12}$ aralkyl group, or a heteroaralkyl group.

[Claim 18] The compound represented by the following formula:



or a salt thereof, or a hydrate or a solvate thereof.

[Claim ~~18~~19] A medicament containing a substance selected from the group consisting of the compound according to any one of claims 1 to ~~17~~18, a salt thereof, a hydrate thereof, and a solvate thereof as an active ingredient.

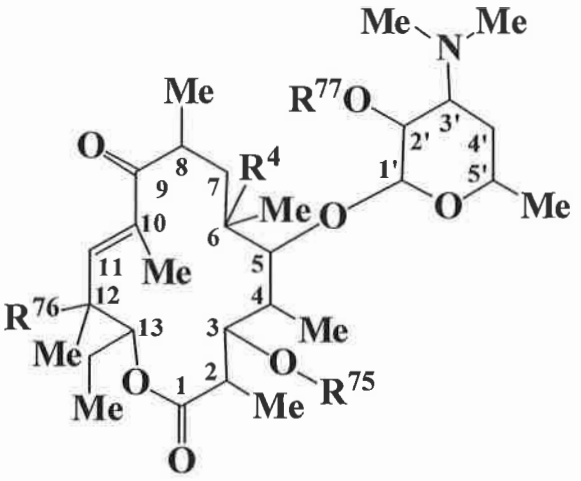
[Claim ~~19~~20] The medicament according to claim ~~18~~19~~, which is used~~ for use in the

prophylactic and/or therapeutic treatment of an infectious disease.

[Claim ~~20~~21] A compound represented by the formula (VIII):

Formula (VIII):

[Formula 8]

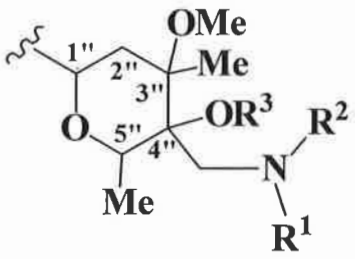


(VIII)

wherein, in the formula,

R^{75} represents a group represented by the formula (IX):

[Formula 9]

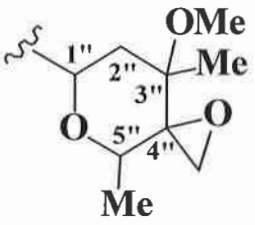


(IX)

, or

a group represented by the formula (X):

[Formula 10]



(X)

,

R^{76} represents hydroxy group, or imidazolylcarbonyloxy group,

R^{77} represents hydrogen atom, or a protective group of hydroxy group, and

R^1, R^2, R^3, and R^4 have the same meanings as those defined in claim 1, or a salt thereof, or a hydrate or a solvate thereof.

[Claim ~~21~~22] The compound according to claim ~~20~~21 or a salt thereof, or a hydrate

or a solvate thereof, wherein R^1 is ~~hydrogen atom,~~ a $C_{1\text{-}6}$ alkyl group, or a $C_{1\text{-}6}$ alkylsulfonyl group, and

R^2 is a 4- to 8-membered saturated heterocyclic group (the saturated heterocyclic group may be substituted with one or two substituents selected from a $C_{7\text{-}12}$ aralkyl group, and a $C_{1\text{-}6}$ alkyl group), a $C_{1\text{-}6}$ alkanoyl group (the $C_{1\text{-}6}$ alkanoyl group may be substituted with amino group, or a $C_{1\text{-}6}$ alkylamino group), or a $C_{1\text{-}6}$ alkyl group which may be substituted with 1 to 3 substituents selected from the substituent group 1, or R^1 and R^2 may combine together to form, together with the nitrogen atom to which they bind, a 4- to 8-membered saturated nitrogen-containing heterocyclic group (the saturated nitrogen-containing heterocyclic group may be substituted with 1 to 3 substituents selected from hydroxy group, amino group, a $C_{1\text{-}6}$ alkylamino group, and a $C_{1\text{-}6}$ alkyl group (the $C_{1\text{-}6}$ alkyl group may be substituted with amino group, or a $C_{1\text{-}6}$ alkylamino group)).

[Claim ~~22~~23] The compound according to claim ~~20~~21 or ~~21~~22 or a salt thereof, or a hydrate or a solvate thereof, wherein $R^{7\,7}$ is trimethylsilyl group, triethylsilyl group, t-butyldimethylsilyl group, acetyl group, propionyl group, benzoyl group, benzyloxycarbonyl group, or t-butyloxycarbonyl group.