

Lesch-Nyhan syndrome, containing the novel compound having URAT1-inhibitory activity as an active ingredient.

It is another object of the present invention to provide the use of the pyrazine derivative or the pharmaceutically acceptable salt thereof, or the solvate thereof as described herein, in the manufacture of a medicament for treating or preventing one or more diseases selected from the group consisting of gout, hyperuricemia, hypertension, kidney diseases, diabetes, arteriosclerosis, or Lesch-Nyhan syndrome.

Further, it is another object of the present invention to provide URAT1 inhibitor or pharmaceutical composition having inhibitory activity against URAT1.

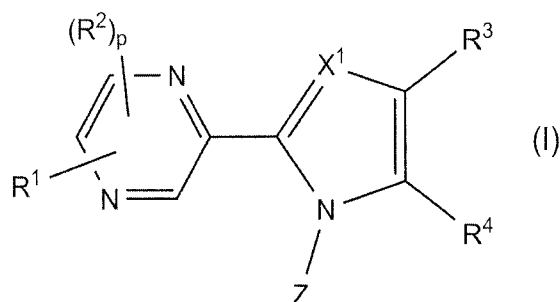
[MEANS OF SOLVING THE PROBLEMS]

[0007]

The present inventors conducted diligent research in order to solve the above problems and, as a result, reached the following invention. That is, the present invention is a pyrazine derivative represented by the following formula (I) or a pharmaceutically acceptable salt thereof, or a solvate thereof. Furthermore, the pyrazine derivative and the pharmaceutically acceptable salt thereof, and the solvate thereof of the present invention have excellent URAT1 inhibitory activity.

[0008]

[Chemical formula 1]



[0009]

wherein, X^1 represents a nitrogen atom or CH; R^1

represents a hydrogen atom, a C₁-C₆ alkyl group, a C₃-C₆ cycloalkyl group, a C₂-C₆ alkenyl group, a C₂-C₆ alkynyl group, a halogen atom, a trifluoromethyl group, a difluoromethyl group, a cyano group, a C₂-C₇ alkylcarbonyl group, a C₁-C₆ alkylsulfonyl group, a nitro group, an amino group, a di(C₁-C₆ alkyl)amino group, a formyl group, a hydroxyl group, a C₁-C₆ alkoxy group, a C₁-C₆ alkylthio group, or a phenyl or phenoxy group optionally substituted with 1 to 3 R^a's; R^a represents a halogen

the pyrazine derivative or the pharmaceutically acceptable salt thereof, or the solvate thereof according to any one of claims 1 to 15.

18. ~~A therapeutic agent or a preventive agent for one or more diseases selected from the group consisting of gout, hyperuricemia, hypertension, kidney diseases, diabetes, arteriosclerosis, or Lesch-Nyhan syndrome, containing~~Use of the pyrazine derivative or the pharmaceutically acceptable salt thereof, or the solvate thereof according to any one of claims 1 to 15, in the manufacture of a medicament for treating or preventing one or more diseases selected from the group consisting of gout, hyperuricemia, hypertension, kidney diseases, diabetes, arteriosclerosis, or Lesch-Nyhan syndrome.