

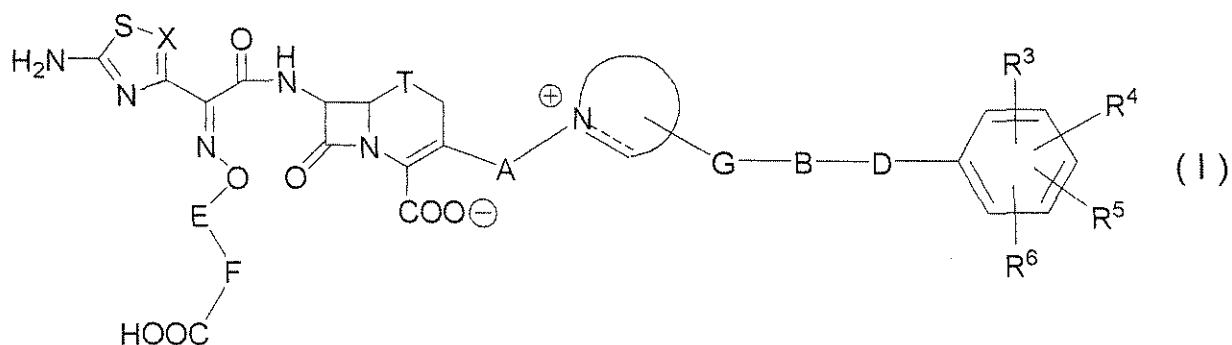
Abstract

CEPHALOSPORIN HAVING CATECHOL GROUP

The present invention provides Cephem compounds which have a wide antimicrobial spectrum and have potent antimicrobial activity against beta-lactamase producing Gram negative bacteria as follows:

A compound of the formula:

[Formula 1]



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wherein,

X is N, CH or C-Cl;

T is S or the like;

A and G are lower alkylene or the like;

15 B is a single bond or the like;

D is a single bond, $-NR^7-$, $-CO-$, $-CO-NR^7-$, $-NR^7-CO-$, $-NR^7-CO-NR^7-$, or the like;

E is optionally substituted lower alkylene;

F is a single bond or optionally substituted phenylene;

20 R^3 , R^4 , R^5 and R^6 each is independently hydrogen, halogene, nitrile, or the like;

or an ester, a compound protected at the amino on the ring in the 7-side chain, a pharmaceutically acceptable salt, or a solvate thereof.

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Figure for publication: None