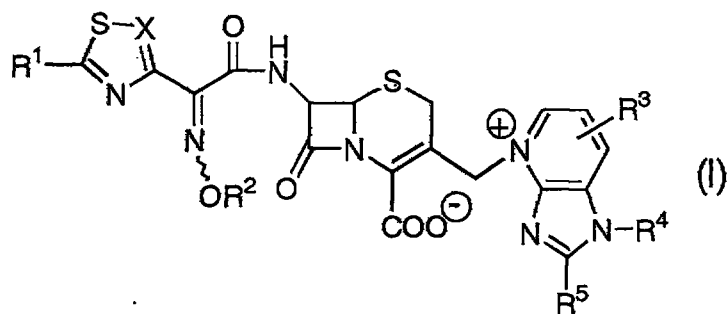


Abstract

A cefem compound of the formula (I) shows wide antibacterial spectrum against various pathogenic bacteria including MRSA.



5

wherein, X is N or CY and Y is H or halogen; R¹ is amino or protected amino; R² is hydrogen or optionally substituted lower alkyl etc.; R³ is hydrogen etc.; R⁴ is hydrogen, optionally substituted lower alkyl, or optionally substituted N-containing heterocyclic group etc.; R⁵ is hydrogen etc.; and a wavy line

10 means syn- or anti-isomerism or a mixture thereof.