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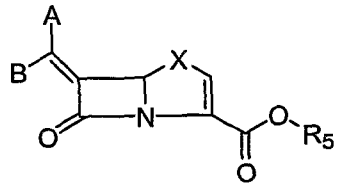
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(54) Title: BICYCLIC 6-ALKYLIDENE-PENEMS AS CLASS-D BETA-LACTAMASES INHIBITORS



(I)

(57) Abstract: ABSTRACT This invention relates to certain bicyclic 6-alkylidene penems which act as a inhibitor of class-D enzymes. β-Lactamases hydrolyze β-lactam antibiotics, and as such serve as the primary cause of bacterial resistance. The compounds of the present invention when combined with β-lactam antibiotics will provide an effective treatment against life threatening bacterial infections. In accordance with the present invention there are provided compounds of general formula I or a pharmaceutically acceptable salt or in vivo hydrolyzable ester R_5 thereof: Formula (I) wherein: One of A and B denotes hydrogen and the other an optionally substituted fused bicyclic heteroaryl group; and X=O or S.

WO 2006/130588 A1