

Product Data Sheet

Product Name: Clindamycin Sulfoxide

Cat. No.: GC43278

Chemical Properties

Cas. No. 22431-46-5

SMILES O=C(N[C@@]([C@H](C)Cl)([H])[C@@]1([H])O[C@@](S(C)=O)([H])[C@H](O)[C@@H](O)[C@H]1O)[C@H]2N(C)C[C@H](CCC)C2

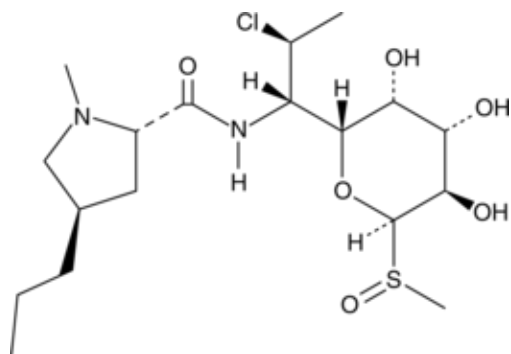
Formula C₁₈H₃₃ClN₂O₆S M.Wt 441

Solubility Methanol: Slightly Soluble, Water: Slightly Soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Clindamycin sulfoxide is an active metabolite of the antibiotic clindamycin. It is formed via S-oxidation of clindamycin primarily by the cytochrome P450 (CYP) isoform CYP3A4. Clindamycin sulfoxide inhibits the growth of *P. prevotti*, *B. fragilis*, and *C. sordelli* in vitro with MIC values of 2, 2, and 1 mg/L, respectively.

Caution: Product has not been fully validated for medical applications. For research use only.

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