

Product Data Sheet

Product Name: Chloramphenicol Succinate

Cat. No.: GC43242

Chemical Properties

Cas. No. 3544-94-3

SMILES O=C(CCC(O)=O)OC[C@@H](NC(C(Cl)Cl)=O)[C@H](O)C1=CC=C([N+])([O-])=O)C=C1

Formula C₁₅H₁₆Cl₂N₂O₈

M.Wt 423.2

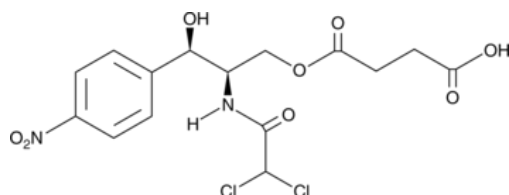
Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

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

Chloramphenicol succinate is a water-soluble prodrug form of the antibiotic chloramphenicol. It is a substrate for succinate dehydrogenase (SDH) and is oxidized by human liver and rat liver and kidney mitochondria to release chloramphenicol in vitro. Chloramphenicol succinate reduces human leukocyte migration in vitro. In vivo, chloramphenicol succinate reduces E. coli growth in rabbit and rat models of pyelonephritis when administered at doses of 150 and 200 mg/kg, respectively. Chloramphenicol succinate (20 mg/kg) reduces infarct size in a porcine model of myocardial ischemia-reperfusion injury. Formulations containing chloramphenicol succinate have been used in the treatment of severe bacterial infections.

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

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