
Product Data Sheet

Product Name: 4-Epianhydrochlortetracycline (hydrochloride)

Cat. No.: GC18359

Chemical Properties

Cas. No. 158018-53-2

Chemical Name (4R,4aS,12aS)- 7-chloro-4-(dimethylamino)-1,4,4a,5,12a,12a-hexahydro-3,10,11,12a-tetrahydroxy-6-methyl-1,12-dioxo-2-naphthacenecarboxamide, monohydrochloride

SMILES O=C([C@@](C(C(C(N)=O)=C(O)[C@@H]1N(C)C)=O)(O)[C@@]1([H])C2)C3=C2C(C)=C4C(C(O)=CC=C4Cl)=C3O.Cl

Formula $C_{22}H_{21}ClN_2O_7 \cdot HCl$ M.Wt 497.3

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

4-Epianhydrochlortetracycline is a derivative of tetracycline. It inhibits matrix metalloproteinase-9 (MMP-9) activity in a dose-dependent manner in an assay for collagen degradation. 4-Epianhydrochlortetracycline also completely inhibits neutrophil-derived MMP-9 degradation of denatured collagen at a concentration of 500 µg/ml. Unlike tetracycline, 4-epianhydrochlortetracycline lacks antibiotic activity.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
