
Product Data Sheet

Product Name: 4-Epidoxycycline

Cat. No.: GC18194

Chemical Properties

Cas. No. 6543-77-7

Chemical Name (4R,4aR,5S,5aR,6R,12aS)-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide

SMILES OC1=C2C([C@H](C)[C@]3([H])C(C2=O)=C(O)[C@@]4(O)[C@@]([C@@H](N(C)C)C(O)=C(C(N)=O)C4=O)([H])[C@H]3O)=CC=C1

Formula	C ₂₂ H ₂₄ N ₂ O ₈	M.Wt	444.4
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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-Epidoxycycline is the 4-epimer hepatic metabolite of the antibiotic doxycycline . Unlike doxycycline, 4-epidoxycycline lacks antibiotic activity, therefore, it may not induce the intestinal inflammation in mice associated with doxycycline use. It is an alternative to doxycycline to inactivate the transactivator protein tTA or activate the reverse transactivator rtTA protein in Tet-Off- and Tet-On-based gene expression systems in vitro and in mice.

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

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