

Product Data Sheet

Product Name: Amadacycline

Cat. No.: GC11812

Chemical Properties

Cas. No. 389139-89-3

Chemical Name (4S,4aS,5aR,12aS)-4,7-bis(dimethylamino)-3,10,12,12a-tetrahydroxy-9-((neopentylamino)methyl)-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carbimidic acid

SMILES CC(C)(CNCC1=CC(N(C)C)=C(C2=C1O)C[C@@](C(C2=O)=C(O)[C@@]34O)([H])C[C@@]3([H])[C@@](N(C)C)([H])C(O)=C(C(O)=N)C4=O)C

Formula C₂₉H₄₀N₄O₇ M.Wt 556.65

Solubility DMF: 1 mg/ml, DMSO: 1 mg/ml, DMSO:PBS (pH 7.2) (1:2): 0.33 mg/ml, Ethanol: slightly soluble, PBS (pH 7.2): 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.

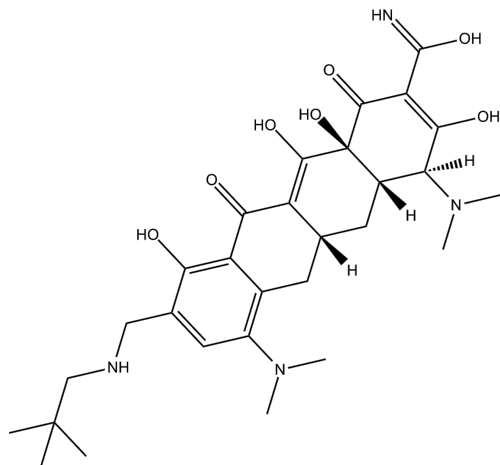
Caution: Product has not been fully validated for medical applications. For research use only.

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

Product Data Sheet

Structure



Background

Omadacycline is a new tetracycline antibiotic in the pipeline, which can inhibit the 30s subunit of bacterial ribosome. IC₅₀ Value: Target: Antibacterial in vitro: in vivo: Clinical trial: Phase III Study to Compare the Safety and Efficacy of PTK-0796 in Patients With Complicated Skin and Skin Structure Infection (CSSSI).

References:

[1]. Schmitz J, Holzgrabe U. Amadacyclin - a new tetracycline antibiotic in the pipeline. Pharm Unserer Zeit. 2010 Mar;39(2):94-5.

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