Data Sheet (Cat.No.T35425)

TargetMol

β-Apooxytetracycline

Chemical Properties

CAS No. : 18751-99-0

Formula: C22H22N2O8

Molecular Weight: 442.424

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	β-Apooxytetracycline is a potential impurity found in commercial preparations of oxytetracycline. β-Apooxytetracycline is a degradation product formed from oxytetracycline via acid hydrolysis. It has a relative potency of 0.1 compared with oxytetracycline for inhibiting the growth of aerobic sludge bacteria, an MIC50 value of 32 mg/L for tetracycline-sensitive strains of Pseudomonas, and MIC50 values of greater than 32 mg/L for tetracycline-sensitive strains of Agrobacterium, Moraxella, and Bacillus, as well as tetracycline-resistant strains of E. coli. β-Apooxytetracycline (10 mg/kg) is toxic to rats, decreasing body weight, disrupting blood cell counts, and inducing hepatocyte necrosis.
Targets(IC50)	Others,Drug Metabolite

Solubility Information

Solubility	DMF: 12 mg/mL (27.12 mM),Sonication is recommended. Ethanol: 5 mg/mL (11.3 mM),Sonication is recommended. PBS (pH 7.2): 0.2 mg/mL (0.45 mM),Sonication is recommended. DMSO: 20 mg/mL (45.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2603 mL	11.3015 mL	22.603 mL
5 mM	0.4521 mL	2.2603 mL	4.5206 mL
10 mM	0.226 mL	1.1301 mL	2.2603 mL
50 mM	0.0452 mL	0.226 mL	0.4521 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481