

Catalog	Unit
TBI3765-1G	1 g
TBI3765-5G	5 g

Product Details

Formal Name: (4S,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-naphthacene-carboxamide, monohydrate

Molecular Formula: C₂₂H₂₄N₂O₈ • H₂O

Formula Weight: 462.5

CAS Number: 17086-28-1

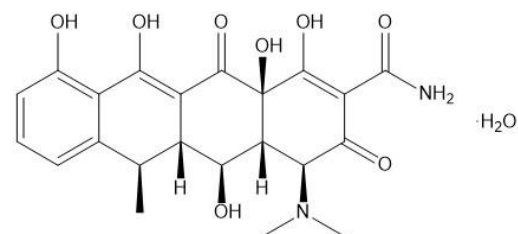
Purity: >98%

Formulation: Powder

Solubility: Soluble in Water (14 mg/ml with warming) or in DMSO (up to 50 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Broad spectrum antibiotic

Functions

A broad-spectrum tetracycline antibiotic. Inhibits matrix metalloproteases. Promotes wound repair by inhibiting collagen degradation in rat models. Displays neuroprotective effects in neurodegenerative diseases. Frequently used in doxycycline-controlled transcriptional activation systems for regulation of gene expression in cell culture and organisms.

Application Procedures

First dissolved in Water (14 mg/ml with warming) or DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

For research use only.