

Tigecycline, Antibiotic

Catalog	Unit
TBI3900 - 10MG	10 mg
TBI3900 - 50MG	50 mg

Product Details

Formal Name: (4S,4aS,5aR,12aR)-9-[[2-(tert-Butylamino)acetyl]amino]-4,7-bis(dimethylamino)-1,10,11,12a-tetrahydroxy-3,12-dioxo-4a,5,5a,6-tetrahydro-4H-tetracene-2-carboxamide

Alternate Names: 9-t-Butylglycylamidominocycline; GAR-936

Molecular Formula: C₂₉H₃₉N₅O₈

Formula Weight: 585.66

CAS Number: 220620-09-7

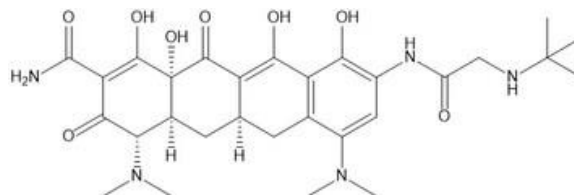
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Antibiotic

Functions

Tigecycline (220620-09-7) is a clinically useful antibiotic. It is a glycylicycline derivative of minocycline that binds to the 30S ribosomal subunit of bacteria blocking the interaction of aminoacyl-tRNA with the ribosome. Tigecycline is active against Gram-positive and -negative bacteria, anaerobic bacteria and drug resistant bacteria such as MRSA, MRSE, and VRE. Tigecycline has also been shown to be selectively toxic to human acute myeloid leukemia cells over normal hematopoietic cells via inhibition of mitochondrial protein translation. It has also been found to be effective against other cancers including non-small cell lung cancer, melanoma, lymphoma, and osteosarcoma.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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