



LKT Laboratories, Inc.

Tigecycline

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Product Information

Product ID T3324

CAS No. 220620-09-7

Chemical Name N-[(5aR,6aS,7S,9Z,10aS)-9-[amino(hydroxy)methylidene]-4,7-bis(dimethylamino)-1,10a,12-trihydroxy-8,10,11-trioxo-5,5a,6,6a,7,8,9,10,10a,11-decahydrotetracen-2-yl]-2-(tert-

Synonym

Formula C₂₉H₃₉N₅O₈

Formula Wt. 585.65

Melting Point

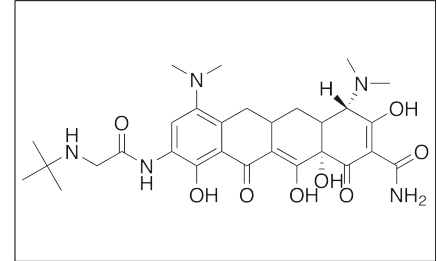
Purity ≥98%

Solubility DMSO (~3 mg/ml with warming)

Store Temp 4° C

Ship Temp Ambient

Description Tigecycline is a glycylicycline antibiotic that displays antibacterial activity against gram positive and gram negative bacteria and also exhibits some neuroprotective and anti-inflammatory benefit as well. The antibacterial activity of tigecycline is due to its binding in the A site of the 30S ribosome and resulting inhibition of prokaryotic protein synthesis. In neuronal cells administered LPS, tigecycline prevents release of NF-κB, TNF-α, IL-1β, cytochrome C, decreases levels of NO and Bad, increases expression of Bcl-2, and decreases activity of caspase-3.



Bulk quantities available upon request

Product ID	Size
T3324	25 mg
T3324	100 mg
T3324	250 mg
T3324	1 g

References Yagnik RM, Benzeroual KE. Tigecycline prevents LPS-induced release of pro-inflammatory and apoptotic mediators in neuronal cells. *Toxicol In Vitro*. 2013 Mar;27(2):686-93. PMID: 23200736.

da Silva LM, Nunes Salgado HR. Tigecycline: a review of properties, applications, and analytical methods. *Ther Drug Monit*. 2010 Jun;32(3):282-8. PMID: 20431506.

Olson MW, Ruzin A, Feyfant E, et al. Functional, biophysical, and structural bases for antibacterial activity of tigecycline. *Antimicrob Agents Chemother*. 2006 Jun;50(6):2156-66. PMID: 16723578.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.