

TunR1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	TunR1 is an antibiotic and derivative of tunicamycin .It is active againstB. subtilis(MIC = 0.3 µg/ml) and increases the efficacy of the β-lactam antibiotics oxacillin , methicillin , and penicillin G againstB. subtiliswhen used at a concentration of 0.4 µg/ml. TunR1 (5 µg/ml) is cytotoxic to MDA-MB-231 breast cancer cells and non-cancerous CHO cells. Unlike tunicamycin, TunR1 does not inhibit glycosylation in a protein N-glycosylation assay.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 20 mg/mL,Sonication is recommended. DMSO: 20 mg/mL,Sonication is recommended. DMSO:PBS (pH 7.2) (1:3): 0.25 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Price, N.P., Hartman, T.M., Li, J., et al.Modified tunicamycins with reduced eukaryotic toxicity that enhance the antibacterial activity of β-lactamsJ. Antibiot. (Tokyo)70(11)1070-1077(2017)

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