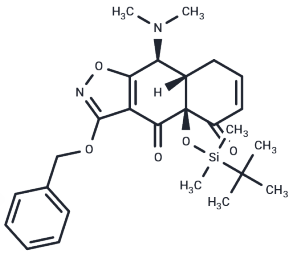
Data Sheet (Cat.No.T2469)

TargetMol

TP808

Chemical Properties



CAS No. : 852821-06-8

Formula: C26H34N2O5Si

Molecular Weight: 482.64

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	TP808 is a highly versatile intermediate for the construction of a wide range of tetracycline antibiotics.
Targets(IC50)	Others,Antibacterial
Kinase Assay	96-well AMPK assay: AMPK activity is measured by monitoring phosphorylation of the SAMS peptide substrate (20 mM in standard assays and 100 mM in additivity assays) following a previously described protocol (Anderson et al., 2004). To determine whether A-769662-induced AMPK activation occurs in a reversible manner, AMP or A-769662 are preincubated with rat liver AMPK for 10 minutes at 20 times standard assay concentrations prior to dilution and measurement of AMPK activity.

Solubility Information

Solubility	DMSO: 50 mg/mL (103.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.18 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0719 mL	10.3597 mL	20.7194 mL
5 mM	0.4144 mL	2.0719 mL	4.1439 mL
10 mM	0.2072 mL	1.036 mL	2.0719 mL
50 mM	0.0414 mL	0.2072 mL	0.4144 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.

Reference

Brubaker, J., & Myers, A. (2007). A Practical, Enantioselective Synthetic Route to a Key Precursor to the Tetracycline Antibiotics. Organic Letters, 9(18), 3523-3525. doi: 10.1021/ol071377d

Kummer, D., Li, D., Dion, A., & Myers, A. (2011). A practical, convergent route to the key precursor to the tetracycline antibiotics. Chemical Science, 2(9), 1710. doi: 10.1039/c1sc200303h

Charest, M. (2005). A Convergent Enantioselective Route to Structurally Diverse 6-Deoxytetracycline Antibiotics. Science, 308(5720), 395-398. doi: 10.1126/science.1109755