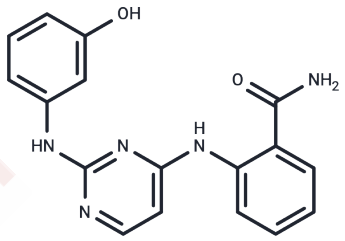
Data Sheet (Cat.No.T3200)

DB07268

Chemical Properties



CAS No. :	929007-72-7
Formula:	C17H15N5O2
Molecular Weight:	321.33
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	DB07268 is a potent and selective JNK1 inhibitor. It exhibits a strong affinity for the JNK1 enzyme, effectively inhibiting its activity and providing potential therapeutic benefits in conditions where JNK1 is implicated. This compound has demonstrated selective binding to JNK1 over other kinases, underscoring its specificity and promising application in targeted therapies.
Targets(IC50)	JNK
Kinase Assay	Following 3T3L1 adipocyte serum-starvation and insulin stimulation, cell lysates containing protease inhibitors are clarified and then subjected to immunoprecipitation with anti-PIKfyve antibodies. Washed beads are mixed with 100 μM PtdIns and preincubated for 15 min with YM-201636 (100 nM) or vehicle in the assay buffer (50 mM Tris-HCl, pH 7.5, 1 mM EGTA and 10 mM MgCl2). The kinase assay (50 μL final volume) is carried out for 15 min at 37 °C with 15 μM ATP and [γ-32P]ATP (30 μCi). Lipids are extracted, spotted on TLC glass plates (250 μm), resolved by a chloroform/methanol/water/ammonia solvent system and detected by autoradiography[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (155.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.22 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	3.1121 mL	15.5603 mL	31.1207 mL
5 mM	0.6224 mL	3.1121 mL	6.2241 mL
10 mM	0.3112 mL	1.556 mL	3.1121 mL
50 mM	0.0622 mL	0.3112 mL	0.6224 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

Liu M, et al. Bioorg Med Chem Lett. 2007 Feb 1;17(3):668-72.
Targeting RACGAP1 suppresses growth hormone pituitary adenoma growt