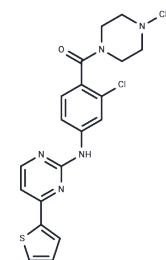


GSK-3 β inhibitor 8

Chemical Properties

CAS No. :	1139875-74-3
Formula:	C ₂₀ H ₂₀ ClN ₅ O ₅
Molecular Weight:	413.92
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	GSK-3 β inhibitor 8 (GSK3 β Inhibitor XVIII) is a potent and selective GSK-3 β inhibitor with an IC ₅₀ value of 64 nM. GSK-3 β inhibitor 8 is a thienopyrimidine derivative that negatively regulates the Wnt signaling pathway and stimulates β -cell proliferation.
Targets(IC ₅₀)	GSK-3, Wnt/beta-catenin
In vitro	GSK-3 β inhibitor 8 (Compound 1a) (1 nM-100 μ M; 7 d) dose-dependently stimulates β -cell proliferation with an EC ₅₀ value of 1.41 μ M. GSK-3 β inhibitor 8 (2 μ M; 72 h) increases replicating R7T1 β cells approximately 2-fold.[1] GSK-3 β inhibitor 8 (1 nM-100 μ M; 24 h) induces activation of the Super (8X) TOPFlash reporter with an EC ₅₀ value of 1.25 μ M.[1] GSK-3 β inhibitor 8 (2 μ M; 72 h) stimulates β -catenin translocation into the nucleus in HEK293 cells.[1]

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4159 mL	12.0796 mL	24.1593 mL
5 mM	0.4832 mL	2.4159 mL	4.8319 mL
10 mM	0.2416 mL	1.208 mL	2.4159 mL
50 mM	0.0483 mL	0.2416 mL	0.4832 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481