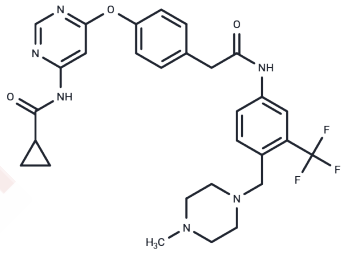
Data Sheet (Cat.No.T2106)

TargetMol

WS6

Chemical Properties



CAS No. : 1421227-53-3

Formula: C29H31F3N6O3

Molecular Weight: 568.59

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	WS6, a β cell proliferation inducer, regulates Erb3 binding protein-1 (EBP1) and the IκB kinase pathway.
Targets(IC50)	EGFR,FLT,GABA Receptor,IκB/IKK,PI3K
In vitro	In the RIP-DTA mouse model with β-cell ablation, oral administration of WS6 (50 mg/kg) promotes β-cell proliferation, thereby ameliorating diabetes.
In vivo	In R7T1 cells (EC50=0.28 μM), WS6 induces cell proliferation through the action on the Erb3 binding protein-1 and IκB kinase signaling pathways.
Kinase Assay	PARP assays are conducted in a buffer containing 50 mM Tris (pH 8.0), 1 mM DTT, 1.5 μM [3H]NAD+?(1.6 μCi/mmol), 200 nM biotinylated histone H1, 200 nM slDNA, and 1 nM PARP-1 or 4 nM PARP-2 enzyme. Reactions are terminated with 1.5 mM benzamide, transferred to streptavidin Flash plates, and counted using a TopCount microplate scintillation counter.
Cell Research	R7T1 cells are growth-arrested by removal of doxycycline for 2 days and plated into 384-well plates at a density of 3,000 cells/well in growth medium. B cell proliferation is assessed using CellTiter Glo after 4 days. Fold increase in cell number is calculated by normalizing compound-treated wells to the median of DMSO-treated wells. (Only for Reference)

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (163.56 mM),Sonication is recommended. Ethanol: 93 mg/mL (163.56 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: 3.3 mg/mL (5.8 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	1.7587 mL	8.7937 mL	17.5874 mL
5 mM	0.3517 mL	1.7587 mL	3.5175 mL
10 mM	0.1759 mL	0.8794 mL	1.7587 mL
50 mM	0.0352 mL	0.1759 mL	0.3517 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

Shen W, et al. J Am Chem Soc. 2013, 135(5), 1669-1672.