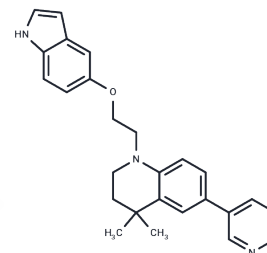


STAT5-IN-2

Chemical Properties

CAS No. :	2111834-61-6
Formula:	C ₂₆ H ₂₇ N ₃ O
Molecular Weight:	397.51
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	STAT5-IN-2 is an inhibitor of STAT5 with antileukemic effects (EC50s: 9 μ M and 5 μ M in K562 and KU812 cells, respectively).
Targets(IC50)	Apoptosis, STAT
In vitro	STAT5-IN-2 (100 nM-50 μ M) inhibits cell growth in KG1a and MV-4-11 cell lines with EC50 values of 2.6 μ M and 3.5 μ M, respectively. In K562, KU812, KG1a and MV-4-11 cells, STAT5-IN-2 (10 μ M) induces apoptosis. In KG1a, MV-4-11 and KU812 cells, STAT5-IN-2 (10 μ M) blocks the phosphorylation of STAT5[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (226.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.3 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5157 mL	12.5783 mL	25.1566 mL
5 mM	0.5031 mL	2.5157 mL	5.0313 mL
10 mM	0.2516 mL	1.2578 mL	2.5157 mL
50 mM	0.0503 mL	0.2516 mL	0.5031 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

Juen L, et al. New Inhibitor Targeting Signal Transducer and Activator of Transcription 5 (STAT5) Signaling in Myeloid Leukemias. *J Med Chem.* 2017 Jul 27;60(14):6119-6136.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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