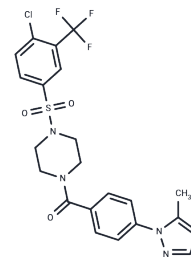


Smurf1-IN-A01

Chemical Properties

CAS No. :	1007647-73-5
Formula:	C ₂₂ H ₂₀ ClF ₃ N ₄ O ₃ S
Molecular Weight:	512.93
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	Smurf1-IN-A01 (A01) is a ubiquitin ligase Smad ubiquitination regulatory factor-1 inhibitor (Kd: 3.664 nM) that enhances BMP-2 responsiveness by preventing Smurf1-mediated Smad1/5 degradation.
Targets(IC50)	Estrogen Receptor/ERR,Others,HSP,NF-κB,Interleukin,MyD88

Solubility Information

Solubility	DMSO: 21.43 mg/mL (41.78 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 (3.9 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	1.9496 mL	9.7479 mL	19.4958 mL
5 mM	0.3899 mL	1.9496 mL	3.8992 mL
10 mM	0.195 mL	0.9748 mL	1.9496 mL
50 mM	0.039 mL	0.195 mL	0.3899 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

Cao Y, et al. Selective small molecule compounds increase BMP-2 responsiveness by inhibiting Smurf1-mediated Smad1/5 degradation. Sci Rep. 2014 May 14;4:4965.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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