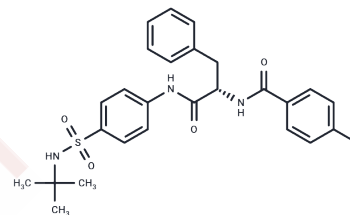


USP30 inhibitor 18

Chemical Properties

CAS No. :	2242582-40-5
Formula:	C ₂₆ H ₂₈ FN ₃ O ₄ S
Molecular Weight:	497.58
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	USP30 inhibitor 18 is a selective inhibitor of USP30 (IC ₅₀ = 0.02 μM). USP30 inhibitor 18 is able to accelerate mitophagy and increase protein ubiquitination.
Targets(IC ₅₀)	Mitophagy,DUB

Solubility Information

Solubility	DMSO: 120 mg/mL (241.17 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 (6.63 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	2.0097 mL	10.0486 mL	20.0973 mL
5 mM	0.4019 mL	2.0097 mL	4.0195 mL
10 mM	0.201 mL	1.0049 mL	2.0097 mL
50 mM	0.0402 mL	0.201 mL	0.4019 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

Arthur F Kluge, et al. Novel highly selective inhibitors of ubiquitin specific protease 30 (USP30) accelerate mitophagy. Bioorg Med Chem Lett. 2018 Aug 15;28(15):2655-2659.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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