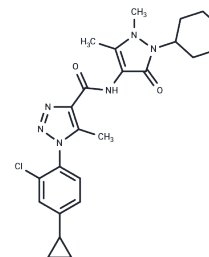


Smurf1-IN-1

Chemical Properties

CAS No. :	1824708-03-3
Formula:	C ₂₄ H ₂₉ ClN ₆ O ₂
Molecular Weight:	468.98
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-1, a selective E3 ubiquitin protein ligase 1 (SMURF1) inhibitor, exhibits oral activity with an IC ₅₀ of 92 nM and demonstrates considerable efficacy in a rat model of pulmonary hypertension [1].
Targets(IC ₅₀)	E1/E2/E3 Enzyme
In vivo	Smurf1-IN-1 (Compound 38), when administered orally at doses of 1, 3, and 10 mg/kg, significantly ameliorates the condition of a rat model of pulmonary hypertension [1]. Pharmacokinetic profiling of Smurf1-IN-1 reveals a half-life (T _{1/2}) of 7.9 hours with intravenous administration of 1 mg/kg, and an oral bioavailability (F%) of 82% at a 3 mg/kg dosage [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1323 mL	10.6614 mL	21.3229 mL
5 mM	0.4265 mL	2.1323 mL	4.2646 mL
10 mM	0.2132 mL	1.0661 mL	2.1323 mL
50 mM	0.0426 mL	0.2132 mL	0.4265 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

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