

IMP-1710

Chemical Properties

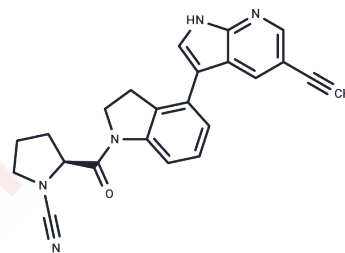
CAS No. : 2383117-96-0

Formula: C₂₃H₁₉N₅O

Molecular Weight: 381.43

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	IMP-1710 is a selective UCH-L1 inhibitor with an IC ₅₀ value of 38 nM in a fluorescence polarization assay. IMP-1710 has antifibrotic activity. [1]
Targets(IC ₅₀)	DUB
In vitro	METHODS: Unbiased quantitative chemical proteome analysis (Figure 22a) was used in HEK293 cells treated with IMP-1710 (2, 20 or 200 nM) or vehicle (DMSO) for 10, 60 or 180 minutes to determine the overall proteome. Selectivity. RESULTS IMP-1710 significantly enriched ubiquitin carboxyl-terminal hydrolase L1 (UCHL1) and fibroblast growth factor receptor 2 (FGFR2) at 20 nM. [1]

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 20 mg/mL (52.43 mM), Sonication is recommended. Ethanol: 4.5 mg/mL (11.8 mM), Sonication is recommended. Chloroform: 9 mg/mL (23.6 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 (5.24 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	2.6217 mL	13.1086 mL	26.2171 mL
5 mM	0.5243 mL	2.6217 mL	5.2434 mL
10 mM	0.2622 mL	1.3109 mL	2.6217 mL
50 mM	0.0524 mL	0.2622 mL	0.5243 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

Panyain N, et al. Discovery of a Potent and Selective Covalent Inhibitor and Activity-Based Probe for the Deubiquitylating Enzyme UCHL1, with Antifibrotic Activity. J Am Chem Soc. 2020 Jul 15;142(28):12020-12026.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481