

PTPN2-IN-2

Chemical Properties

CAS No. :	3093350-44-5
Formula:	C19H22FN5O5S
Molecular Weight:	451.47
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	PTPN2-IN-2 is a potent and orally bioavailable PTPN2 inhibitor with an IC50 of 7.05 nM, which enhances the IFN- γ signaling pathway. It also inhibits PTP1B with an IC50 of 9.88 nM. In the B16-OVA mouse model, PTPN2-IN-2 suppresses tumor growth and promotes the activation and infiltration of tumor immune cells. This compound is applicable in melanoma research.
Targets(IC50)	STAT,IFNAR,JAK,Phosphatase
In vitro	PTPN2-IN-2 (compound K-38) (0-100 μ M; 24 h) enhances the IFN- γ /JAK/STAT1 signaling pathway in Jurkat and B16 cells, indicated by increased STAT1 phosphorylation following IFN- γ stimulation.
In vivo	PTPN2-IN-2 (50-150 mg/kg; orally; once daily; for 24 consecutive days) suppresses tumor growth in the B16-OVA mouse model by modulating IFN- γ signal transduction.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.215 mL	11.0749 mL	22.1499 mL
5 mM	0.443 mL	2.215 mL	4.430 mL
10 mM	0.2215 mL	1.1075 mL	2.215 mL
50 mM	0.0443 mL	0.2215 mL	0.443 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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