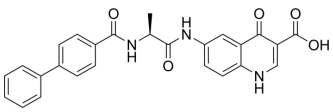
PTPN22-IN-1

Cat. No.:	HY-139693
CAS No.:	2580935-57-3
Molecular Formula:	$C_{26}H_{21}N_3O_5$
Molecular Weight:	455.46
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (21.96 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1956 mL	10.9779 mL	21.9558 mL
	5 mM	0.4391 mL	2.1956 mL	4.3912 mL
	10 mM	0.2196 mL	1.0978 mL	2.1956 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PTPN22-IN-1 is a potent PTPN22 inhibitor (IC_{50}=1.4 μM; K_i=0.50 μM). PTPN22-IN-1 exhibits >7-10 fold selectivity for PTPN22 over similar phosphatases. PTPN22-IN-1 augments antitumor immune responses[1]. From WO2021007491A1 compound L-1.

In Vitro

PTPN22-IN-1 (Compound L-1) (WT mice; intraperitoneally) significantly reduces MC38 tumor growth. PTPN22-IN-1 (syngeneic immunocompetent model; CT26 in Balb/c mice) shows similar antitumor effects[1].
?Administration of L-l intraperitoneally at 10 mg/kg yielded an average AUC of 4.55 μM h and C_{max} of 1.1 1 μM (Fig. 9d), which is more than twice of its K_i value[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

PTPN22-IN-1 (Compound L-1) (WT mice; intraperitoneally) significantly reduces MC38 tumor growth. PTPN22-IN-1 (syngeneic immunocompetent model; CT26 in Balb/c mice) shows similar antitumor effects[1].
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REFERENCES

[1]. Elizabeth Jaffee, et al. Targeting ptpn22 in cancer therapy. WO2021007491A1.

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