

LYP-IN-4

Chemical Properties

CAS No. :

Formula: C₂₉H₂₁ClN₂O₈S

Molecular Weight: 593

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	LYP-IN-4 (compound D14), a reversible and selective lymphotyrosine phosphatase (LYP) inhibitor (K _i =1.34 μM, IC ₅₀ =3.52μM), regulates TCR signaling, increases PD-1/PD-L1 expression, and strengthens anti-tumor immunity. It also stimulates T cell activation, impedes M2 macrophage polarization, and suppresses tumor progression in MC38 isogenic mouse models.
Targets(IC50)	Phosphatase
In vitro	LYP-IN-4 (compound D14) also inhibits other protein tyrosine phosphatases (PTP), with IC ₅₀ values of 13.7 μM for PTP1B and 12.3 μM for PTPN1B [1].
In vivo	LYP-IN-4 (compound D14), administered at 25 mg/kg via oral gavage twice daily for 14 consecutive days, significantly inhibited tumor growth and reduced tumor volume in the MC38 genetic model, without affecting mouse body weight [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6863 mL	8.4317 mL	16.8634 mL
5 mM	0.3373 mL	1.6863 mL	3.3727 mL
10 mM	0.1686 mL	0.8432 mL	1.6863 mL
50 mM	0.0337 mL	0.1686 mL	0.3373 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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