## LYP-IN-3

Cat. No.:	HY-155847				
Molecular Formula:	C <sub>35</sub> H <sub>27</sub> NO <sub>6</sub> S				
Molecular Weight:	589.66				
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		

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### SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	1.6959 mL	8.4795 mL	16.9589 mL		
		5 mM	0.3392 mL	1.6959 mL	3.3918 mL	
		10 mM	0.1696 mL	0.8479 mL	1.6959 mL	
	Please refer to the sc	lubility information to select the app	propriate solvent.			
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.24 mM); Clear solution; Need ultrasonic				
		t one by one: 10% DMSO >> 90% corn oil g/mL (4.24 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY			
Description	LYP-IN-3 (compound D34) is a selective inhibitor of Lymphoid-tyrosine phosphatase (LYP) (Ki=0.93 μM), and regulates T-cell receptor (TCR) signaling pathway in tumor progress. LYP-IN-3 activates T-cell and inhibits M2 macrophage polarization, but upregulates PD-1/PD-L1 expression. LYP-IN-3 can be leveraged with PD-1/PD-L1 inhibitor, for futher cancer immunotherapy <sup>[1]</sup> .		
IC <sub>50</sub> & Target	Ki: 0.93 $\mu$ M (Lymphoid-tyrosine phosphatase, LYP) <sup>[1]</sup>		
In Vivo	LYP-IN-3 (compound D34) MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

# Product Data Sheet

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### REFERENCES

[1]. Liang X, et al. Discovery of benzofuran-2-carboxylic acid derivatives as lymphoid tyrosine phosphatase (LYP) inhibitors for cancer immunotherapy. Eur J Med Chem. 2023 Oct 5;258:115599.

#### Caution: Product has not been fully validated for medical applications. For research use only.

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