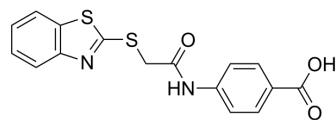


PTP1B-IN-22

Cat. No.:	HY-153018
CAS No.:	86109-60-6
Molecular Formula:	C ₁₆ H ₁₂ N ₂ O ₃ S ₂
Molecular Weight:	344.41
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (290.35 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.9035 mL	14.5176 mL	29.0352 mL
				5 mM	0.5807 mL	2.9035 mL	5.8070 mL
				10 mM	0.2904 mL	1.4518 mL	2.9035 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.26 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.26 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	PTP1B-IN-22, a ZINC02765569 derivative, is a potent protein tyrosine phosphatase 1B (PTP1B) inhibitor. PTP1B-IN-22 has PTP1B inhibition and glucose uptake in skeletal muscle L6 myotubes ^[1] .
In Vitro	PTP1B-IN-22 (compound 3j; myotubes) shows 66.4 % in vitro PTP1B inhibition and 39.6 % increase in glucose uptake ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Prashant J, et, al. Molecular modeling and synthesis of ZINC02765569 derivatives as protein tyrosine phosphatase 1B inhibitors: lead optimization study. 2012;22: 1618-

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

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