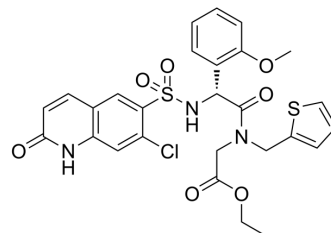


OSMI-4

Cat. No.:	HY-114361		
CAS No.:	2260791-14-6		
Molecular Formula:	C ₂₇ H ₂₆ ClN ₃ O ₇ S ₂		
Molecular Weight:	604.09		
Target:	Acyltransferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (103.46 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.6554 mL	8.2769 mL	16.5538 mL
		5 mM	0.3311 mL	1.6554 mL	3.3108 mL
10 mM		0.1655 mL	0.8277 mL	1.6554 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: ≥ 2.08 mg/mL (3.44 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.44 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	OSMI-4 is a low nanomolar O-GlcNAc transferase (OGT) inhibitor, with an EC ₅₀ of 3 μM in cells.
IC₅₀ & Target	EC ₅₀ : 3 μM (OGT) ^[1] .
In Vitro	OSMI-4 (4b) is the best OGT inhibitor reported to date, with a 3 μM EC ₅₀ in cells, making it especially attractive for probing OGT's complex biology ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Biomed Sci. 2022 Feb 14;29(1):13.
- Acta Biomater. 2022 Aug 21;S1742-7061(22)00509-8.
- Cell Rep. 2023 Jul 14;42(7):112796.
- Burns Trauma. 08 October 2021.
- J Biol Chem. 2023 Jun 22;104950.

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REFERENCES

[1]. Martin SES, et al. Structure-Based Evolution of Low Nanomolar O-GlcNAc Transferase Inhibitors. J Am Chem Soc. 2018 Oct 24;140(42):13542-13545.

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

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