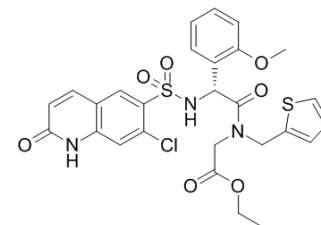


## OSMI-4

Cat. No.:	HY-114361		
CAS No.:	2260791-14-6		
Molecular Formula:	C <sub>27</sub> H <sub>26</sub> ClN <sub>3</sub> O <sub>7</sub> S <sub>2</sub>		
Molecular Weight:	604.09		
Target:	Others		
Pathway:	Others		
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 : 62.5 mg/mL (103.46 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration \ Mass	1 mg	5 mg	10 mg
		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: <b>10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</b> Solubility: ≥ 2.08 mg/mL (3.44 mM); Clear solution				
	2. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% corn oil</b> 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 <sub>50</sub> of 3 μM in cells.
IC <sub>50</sub> & Target	EC <sub>50</sub> : 3 μM (OGT) <sup>[1]</sup> .
In Vitro	OSMI-4 (4b) is the best OGT inhibitor reported to date, with a -3 μM EC <sub>50</sub> in cells, making it especially attractive for probing OGT's complex biology <sup>[1]</sup> .

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## REFERENCES

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[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.

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

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