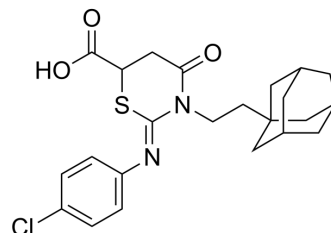


## OGT-IN-2

Cat. No.:	HY-136282	
CAS No.:	442665-87-4	
Molecular Formula:	C <sub>23</sub> H <sub>27</sub> ClN <sub>2</sub> O <sub>3</sub> S	
Molecular Weight:	446.99	
Target:	Acyltransferase	
Pathway:	Metabolic Enzyme/Protease	
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 : 125 mg/mL (279.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2372 mL	11.1859 mL	22.3719 mL
		5 mM	0.4474 mL	2.2372 mL	4.4744 mL
10 mM		0.2237 mL	1.1186 mL	2.2372 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 (4.65 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.65 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.65 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	OGT-IN-2 (compound 4) is a potent O-GlcNAc transferase (OGT) inhibitor, with IC <sub>50</sub> values of 30 and 53 μM for sOGT and ncOGT, respectively <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 30 ± 2 μM (sOGT), 53 ± 7 μM (ncOGT) <sup>[1]</sup>

### REFERENCES

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

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