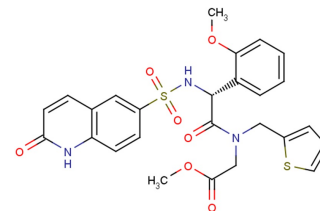


OSMI-2

Chemical Properties

CAS No.:	2260542-60-5
Formula:	C ₂₆ H ₂₅ N ₃ O ₇ S ₂
Molecular Weight:	555.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	OSMI-2 is a cell-permeable inhibitor of O-linked N-acetylglucosamine transferase (OGT).
Targets(IC ₅₀)	Others: None
In vitro	In HCT116 cells,OSMI-2 treatment reduces O-GlcNAc levels at short treatment times (<8h). However, O-GlcNAc levels begins to recover at longer treatment times with OSMI-2. A decrease in HCF-1 cleavage products and the appearance of uncleaved HCF-1 in cells treated with OSMI-2 is observed. Because OGT knockdown is known to decrease cell proliferation, the effects of OSMI-2 on cell growth in culture over 96h is also monitored. Although there is no evidence of apoptosis, the reduced growth of cells over time is observed, consistent with the knockdown results. A time course performed with 20 μM OSMI-2 shows reciprocal changes in the abundance of OGT and OGA, with a particularly large increase in OGT; this may explain the recovery in O-GlcNAc levels with OSMI-2. At 24h where O-GlcNAc levels fully recovered[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8 mL	8.999 mL	17.998 mL
5 mM	0.36 mL	1.8 mL	3.6 mL
10 mM	0.18 mL	0.9 mL	1.8 mL
50 mM	0.036 mL	0.18 mL	0.36 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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