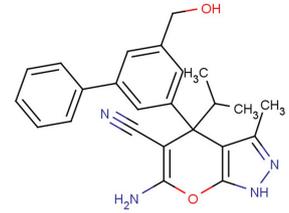


## Data Sheet (Cat.No.T12897L)

SHIN1

### Chemical Properties

CAS No.:	2146095-85-2
Formula:	C <sub>24</sub> H <sub>24</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	400.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	SHIN1 is an inhibitor of human serine hydroxymethyltransferase 1 and 2 (SHMT1/2) (IC <sub>50</sub> : 5 and 13 nM, respectively) in an in vitro assay.
Targets(IC <sub>50</sub> )	SHMT1: 13 nM
In vitro	SHIN1 inhibits the growth of SHMT2 deletion HCT-116 cells (IC <sub>50</sub> : 10 nM). SHIN1 inhibits SHMT1/2 in HCT-116 cells. SHIN1 is particularly active against B-cell malignancies. SHIN1 blocks cell growth through a progressive depletion of purines, leading to loss of nucleotide triphosphates [1].

### Solubility Information

Solubility	DMSO: 50 mg/mL (124.85 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.497 mL	12.485 mL	24.971 mL
5 mM	0.499 mL	2.497 mL	4.994 mL
10 mM	0.25 mL	1.249 mL	2.497 mL
50 mM	0.05 mL	0.25 mL	0.499 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. Ducker GS, et al. Human SHMT inhibitors reveal defective glycine import as a targetable metabolic vulnerability of diffuse large B-cell lymphoma. Proc Natl Acad Sci U S A. 2017 Oct 24;114(43):11404-11409.

Inhibitors · Natural Compounds · Compound Libraries

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