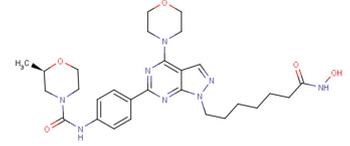


## Data Sheet (Cat.No.T11544)

### HDACs/mTOR Inhibitor 1

#### Chemical Properties

CAS No.:	2271413-06-8
Formula:	C <sub>28</sub> H <sub>38</sub> N <sub>8</sub> O <sub>5</sub>
Molecular Weight:	566.65
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



#### Biological Description

Description	HDACs/mTOR Inhibitor 1 is a dual HDACs and mammalian target of Rapamycin (mTOR) target inhibitor for treating hematologic malignancies (IC <sub>50</sub> s: 0.19 nM, 1.8 nM, 1.2 nM, and >500 nM for HDAC1, HDAC6, mTOR and PI3K $\alpha$ ).
Targets(IC <sub>50</sub> )	HDAC1: 0.19 nM HDAC6: 1.8 nM mTOR: 1.2 nM
In vitro	HDACs/mTOR Inhibitor 1 stimulates cell cycle arrest in the G <sub>0</sub> /G <sub>1</sub> phase and induces tumor cell apoptosis with low toxicity in vivo.

#### Solubility Information

Solubility	DMSO: 32.5 mg/mL (57.35 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.765 mL	8.824 mL	17.648 mL
5 mM	0.353 mL	1.765 mL	3.53 mL
10 mM	0.176 mL	0.882 mL	1.765 mL
50 mM	0.035 mL	0.176 mL	0.353 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

- Chen Y, et al. Discovery of a Novel Dual Histone Deacetylases (HDACs) and Mammalian Target of Rapamycin (mTOR) Target Inhibitor as a Promising Strategy for Cancer Therapy. J Med Chem. 2019 Jan 10.

Inhibitors · Natural Compounds · Compound Libraries

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