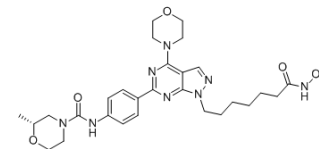


## HDACs/mTOR Inhibitor 1

Cat. No.:	HY-114414
CAS No.:	2271413-06-8
Molecular Formula:	C <sub>28</sub> H <sub>38</sub> N <sub>8</sub> O <sub>5</sub>
Molecular Weight:	566.65
Target:	HDAC; mTOR
Pathway:	Cell Cycle/DNA Damage; Epigenetics; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

Description	HDACs/mTOR Inhibitor 1 is a dual <b>Histone Deacetylases (HDACs)</b> and <b>mammalian target of Rapamycin (mTOR)</b> target inhibitor for treating hematologic malignancies, with <b>IC<sub>50</sub>s</b> of 0.19 nM, 1.8 nM, 1.2 nM and >500 nM for HDAC1, HDAC6, mTOR and PI3K $\alpha$ , respectively. HDACs/mTOR Inhibitor 1 stimulates cell cycle arrest in G0/G1 phase and induce tumor cell apoptosis with low toxicity in vivo <sup>[1]</sup> .		
IC <sub>50</sub> & Target	HDAC1 0.19 nM (IC <sub>50</sub> )	HDAC6 1.8 nM (IC <sub>50</sub> )	mTOR 1.2 nM (IC <sub>50</sub> )

### REFERENCES

[1]. 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.

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

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