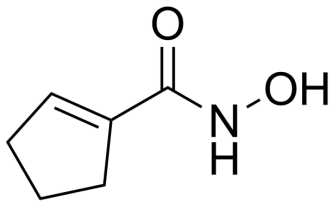
BRD9757

Cat. No.:	HY-117554
CAS No.:	1423058-85-8
Molecular Formula:	$C_6H_9NO_2$
Molecular Weight:	127.14
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 12.5 mg/mL (98.32 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	7.8653 mL	39.3267 mL	78.6535 mL
	5 mM	1.5731 mL	7.8653 mL	15.7307 mL
	10 mM	0.7865 mL	3.9327 mL	7.8653 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BRD9757 is a potent, capless and selective HDAC6 inhibitor with an IC_{50} of 30 nM. BRD9757 shows excellent selectivity toward HDAC6 versus the class I (>20-fold) and class II (>400-fold) HDACs[1].

IC_{50} & Target

HDAC6 0.03 μM (IC_{50})	HDAC1 0.638 μM (IC_{50})	HDAC2 1.79 μM (IC_{50})	HDAC3 0.694 μM (IC_{50})
HDAC4 21.80 μM (IC_{50})	HDAC5 18.32 μM (IC_{50})	HDAC7 12.61 μM (IC_{50})	HDAC8 1.09 μM (IC_{50})
HDAC9 >33.33 μM (IC_{50})			

In Vitro

BRD9757 (compound 14) against HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC7, HDAC8, and HDAC9 with IC_{50} values of 0.638 μM, 1.79 μM, 0.694 μM, 21.80 μM, 18.32 μM, 12.61 μM, 1.09 μM, and >33.33 μM, respectively[1].

BRD9757 (compound 14; 10-30 μM; 24 h) selectively increases the level of Ac-tubulin, without increasing histone acetylation [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HeLa cells
Concentration:	10 μM and 30 μM
Incubation Time:	for 24 h
Result:	Increased the level of Ac-tubulin.

REFERENCES

[1]. Florence F Wagner, et al. Potent and selective inhibition of histone deacetylase 6 (HDAC6) does not require a surface-binding motif. J Med Chem. 2013 Feb 28;56(4):1772-6.

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