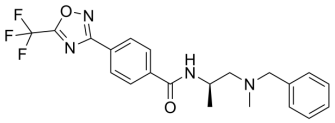
NT160

Cat. No.:	HY-149285
CAS No.:	1418293-40-9
Molecular Formula:	$C_{21}H_{21}F_3N_4O_2$
Molecular Weight:	418.41
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (239.00 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3900 mL	11.9500 mL	23.9000 mL
5 mM	0.4780 mL	2.3900 mL	4.7800 mL
10 mM	0.2390 mL	1.1950 mL	2.3900 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.98 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.98 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

NT160 is a highly potent class-IIa HDAC inhibitor with an IC_{50} value of 0.046 μM. NT160 can be used for the research of central nervous system diseases[1].

IC_{50} & Target

HDAC4	HDAC5	HDAC7	HDAC9
0.08 nM (IC_{50})	1.2 nM (IC_{50})	1.0 nM (IC_{50})	0.9 nM (IC_{50})

In Vitro

NT160 has affinity for class-IIa HDAC4 isoform with an IC_{50} value of 0.046 μM[1].
NT160 exhibites a remarkably high inhibition against HDAC4, HDAC5, HDAC7 and HDAC9 with IC_{50} values of 0.08 nM, 1.2 nM, 1.0 nM and0.9 nM, respectively[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Turkman N, et al. Design, synthesis, biochemical evaluation, radiolabeling and in vivo imaging with high affinity class-IIa histone deacetylase inhibitor for molecular imaging and targeted therapy. Eur J Med Chem. 2022;228:114011.

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