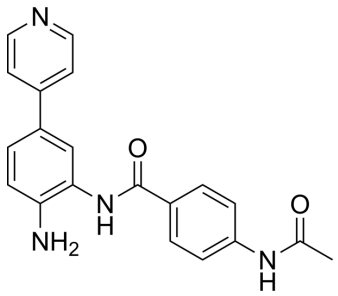
BRD2492

Cat. No.:	HY-124053
CAS No.:	1821669-43-5
Molecular Formula:	$C_{20}H_{18}N_4O_2$
Molecular Weight:	346.38
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 : 31.25 mg/mL (90.22 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8870 mL	14.4350 mL	28.8700 mL
	5 mM	0.5774 mL	2.8870 mL	5.7740 mL
	10 mM	0.2887 mL	1.4435 mL	2.8870 mL

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

BIOLOGICAL ACTIVITY

Description

BRD2492 (compound 6d) is a potent, selective HDAC1 and HDAC2 inhibitor with IC_{50}s of 13.2 nM and 77.2 nM, respecrtively. BRD2492 exhibits >100-fold selectivity for HDAC1/2 over selectivity over HDAC3 and HDAC6. BRD2492 inhibits breast cancer cell lines growth with IC_{50}s of 1.01 μM and 11.13 μM for T-47D and MCF-7 cells, respectively[1].

IC_{50} & Target	HDAC1	HDAC2	HDAC3	HDAC6
	13.2 nM (IC_{50})	77.2 nM (IC_{50})	8908 nM (IC_{50})	>1000 nM (IC_{50})

REFERENCES

[1]. Linda Schäker-Hübner, et al. Balancing Histone Deacetylase (HDAC) Inhibition and Drug-likeness: Biological and Physicochemical Evaluation of Class I Selective HDAC Inhibitors. ChemMedChem. 2022 May 4;17(9):e202100755.

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

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