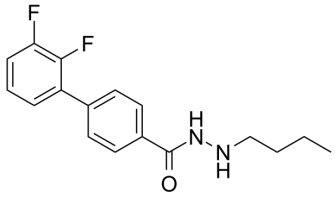
SR-4370

Cat. No.:	HY-111400
CAS No.:	1816294-67-3
Molecular Formula:	$C_{17}H_{18}F_2N_2O$
Molecular Weight:	304.33
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 150 mg/mL (492.89 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.2859 mL	16.4295 mL	32.8591 mL
5 mM	0.6572 mL	3.2859 mL	6.5718 mL
10 mM	0.3286 mL	1.6430 mL	3.2859 mL

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

BIOLOGICAL ACTIVITY

Description

SR-4370 is an inhibitor of HDAC, with IC_{50}s of 0.13 μM, 0.58 μM, 0.006 μM, 2.3 μM, and 3.4 μM for HDAC1, HDAC2, HDAC3, HDAC8, and HDAC6, respectively.

IC_{50} & Target

HDAC3 6 nM (IC_{50})	HDAC1 130 nM (IC_{50})	HDAC2 580 nM (IC_{50})	HDAC8 2300 nM (IC_{50})
HDAC6 3400 nM (IC_{50})			

In Vitro

SR-4370 is an inhibitor of HDAC, with IC_{50}s of 0.13 μM, 0.58 μM, 0.006 μM, 2.3 μM, and 3.4 μM for HDAC1, HDAC2, HDAC3, HDAC8, and HDAC6, respectively. SR-4370 is cytotoxic to the breast cancer cells (MDA-MB-231), with an IC_{50} of 12.6 μM[1].

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

REFERENCES

[1]. LIAO, Daiqing, et al. HDAC INHIBITOR COMPOUNDS AND METHODS OF TREATMENT. WO 2015153516 A1.

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