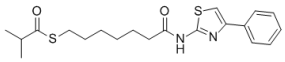
MOLNOVA
HIT YOUR RESEARCH TO LEAD

Datasheet (Version 1.0)

Product Name	:	NCH-51
Synonyms	:	NCH51
Cat No.	:	M16160
CAS Number	:	848354-66-5
Molecular Formula	:	C20H26N2O2S2
Formula Weight	:	390.56
Chemical Name	:	Propanethioic acid, 2-methyl-, S-[7-oxo-7-[(4-phenyl-2-thiazolyl)amino]heptyl] ester
Description	:	NCH-51 is the S-isobutyryl prodrug of NCH-31, which is a potent HDAC inhibitor with IC50 of 48 nM for HDAC1, inhibits cell proliferation of NCI-H460 and MDA-MB-231 with IC50 of 2.1 and 4.4 uM; inhibits the cell growth of a variety of lymphoid malignant cells through apoptosis induction, more effectively than SAHA, upregulates p21 and downregulated anti-apoptotic molecules including survivin, bcl-w and c-FLIP; also induces expression of latent HIV-1 through the Sp1 sites with minimal cytotoxicit in latently infected-cells.
Pathway	:	Cell Cycle/DNA Damage
Target	:	HDAC
Receptor	:	HDAC
Solubility	:	10 mM in DMSO
SMILES	:	CC(C)C(SCCCCCCC(NC1=NC(C2=CC=CC=C2)=CS1)=O)=O
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Sanda T, et al. Leukemia. 2007 Nov;21(11):2344-53.| 2. Suzuki T, et al. Bioorg Med Chem Lett. 2007 Mar 15;17(6):1558-61.| 3. Suzuki T, et al. J Med Chem. 2005 Feb 24;48(4):1019-32.| 4. Victoriano AF, et al. FEBS Lett. 2011 Apr 6;585(7):1103-11.