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DATASHEET

TC-H 106

Product overview

Name	TC-H 106
Cat No	HB1400
Alternative names	Histone Deacetylase Inhibitor VII; Pimelic Diphenylamide 106
Biological action	Inhibitor
Purity	>99%
Description	Selective class I HDAC inhibitor

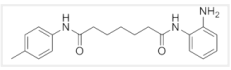
Biological Data

Biological description	Selective class I histone deacetylase (HDAC) inhibitor. Inhibits HDAC1, HDAC3, HDAC2 and HDAC8 (IC_{50} values are 150, 370, 760 and 5000 nM respectively). Shows slow tight-binding inhibition of HDAC1, 2 and 3. Shows actions against neurodegenerative diseases. Blood-brain barrier permeable.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	*N1*-(2-Aminophenyl)-*N7*-(4-methylphen yl)heptanediamide
Molecular Weight	339.43
Chemical structure	
Molecular Formula	$C_{20}H_{25}N_3O_2$
CAS Number	937039-45-7
PubChem identifier	16070100
SMILES	NC1=CC=CC=C1NC(CCCCCC(NC2=CC=C(C)C=C2)=O)=O
InChiKey	WTKBRPXPNAKVEQ-UHFFFAOYSA-N

References

Pimelic diphenylamide 106 is a slow, tight-binding inhibitor of class I histone deacetylases.

Chou CJ *et al* (2008) J Biol Chem 283(51)
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Chemical probes identify a role for histone deacetylase 3 in Friedreich's ataxia gene silencing.

Xu C *et al* (2009) Chem Biol 16(9)
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HDAC inhibitors correct frataxin deficiency in a Friedreich ataxia mouse model.

Rai M *et al* (2008) PLoS One 3(4)

PubMedID 18463734