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DATASHEET

Pyroxamide

Product overview

Name	Pyroxamide
Cat No	HB1395
Alternative names	Suberoyl-3-aminopyridineamide hydroxamic acid
Biological action	Inhibitor
Purity	>98%
Description	Potent HDAC inhibitor

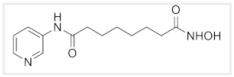
Biological Data

Biological description	Potent histone deacetylase (HDAC) inhibitor (ID_{50} = 100 nM for HDAC1). Increases p21/WAF expression and shows growth inhibitory actions in cancer cells.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM)
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	*N*-Hydroxy-*N'*-3-pyridinyloctanediamid e
Molecular Weight	265.31
Chemical structure	
Molecular Formula	$C_{13}H_{19}N_3O_3$
CAS Number	382180-17-8
PubChem identifier	4996
SMILES	O=C(CCCCCCC(NO)=O)NC1=CC=CN=C1
InChiKey	PTJGLFIIZFVFJV-UHFFFAOYSA-N

References

Inhibition of transformed cell growth and induction of cellular differentiation by pyroxamide, an inhibitor of histone deacetylase.

Butler LM *et al* (2001) Clin Cancer Res 7(4)
PubMedID 11309347

Histone deacetylase inhibitors induce growth suppression and cell death in human rhabdomyosarcoma in vitro.

Kutko MC *et al* (2003) Clin Cancer Res 9(15)
PubMedID 14654560