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DATASHEET

FK 228

Product overview

Name	FK 228
Cat No	HB1386
Alternative names	Romidepsin; depsipeptide
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective HDAC1 / HDAC2 inhibitor

Biological Data

Biological description	Potent and selective histone deacetylase (HDAC) inhibitor. Selective for class I HDAC1 and HDAC2 over class II HDAC4 and HDAC6 (IC ₅₀ values are 36, 47, 510 nM and 14 μM respectively). Induces human fetal hemoglobin. Shows growth inhibitory, apoptotic and anti-tumor actions.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (10mM)
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	Cyclo[(2Z)-2-amino-2-butenoyl-L-val yl-(3S,4E)-3-hydroxy-7-mercapto-4-heptenoyl-D-valy l-D-cysteinyl], cyclic (3-5) disulfide
Molecular Weight	540.7
Chemical structure	The chemical structure of FK228 (Romidepsin) is a cyclic depsipeptide. It features a 14-membered ring containing two amide bonds and one ester bond. A disulfide bridge connects the side chains of two cysteine residues. The structure includes various stereocenters and functional groups like a hydroxyl group and a mercapto group.
Molecular Formula	C ₂₄ H ₃₆ N ₄ O ₆ S ₂
CAS Number	128517-07-7
PubChem identifier	5352062
SMILES	<chem>O=C([C@H]([C@H](C)C)NC(/C(=O)N([C@@H]2NC([C@@H]([C@H](C)C)N1)=O)=O)=C/C(=O)O[C@H]([C@H](C)C)SSC2)CC1=O</chem>
InChiKey	OHRURASPPZQGQM-GCCNXGTGSA-N

References

FK228 (depsipeptide) as a natural prodrug that inhibits class I histone deacetylases.

Furumai R *et al* (2002) Cancer Res 62(17)

PubMedID 12208741

Effects of FK228, a novel histone deacetylase inhibitor, on human lymphoma U-937 cells in vitro and in vivo.

Sasakawa Y *et al* (2002) *Biochem Pharmacol* 64(7)

PubMedID 12234611

Histone deacetylase inhibitor FK228 is a potent inducer of human fetal hemoglobin.

Cao H *et al* (2006) *Am J Hematol* 81(12)

PubMedID 16888791
