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## DATASHEET

FK 228

### Product overview

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

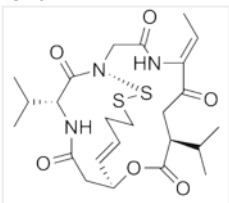
### Biological Data

<b>Biological description</b>	Potent and selective histone deacetylase (HDAC) inhibitor. Selective for class I HDAC1 and HDAC2 over class II HDAC4 and HDAC6 (IC <sub>50</sub> 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

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (10mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	Cyclo[(2Z)-2-amino-2-butenoyl-L-val yl-(3S,4E)-3-hydroxy-7-mercapto-4-heptenoyl-D-valy l-D-cysteiny], cyclic (3-5) disulfide
<b>Molecular Weight</b>	540.7
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub> S <sub>2</sub>
<b>CAS Number</b>	128517-07-7
<b>PubChem identifier</b>	5352062
<b>SMILES</b>	<chem>O=C([C@H]([C@H](C)C)NC)/C(NC([C@@H]2NC([C@@H]([C@H](C)C)N1)=O)=O)=C/C(=O)O[C@H]([C=C/CCSSC2)CC1=O</chem>
<b>InChiKey</b>	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](#)

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