



Product Information

HDAC inhibitor Fimepinostat, Purity $\geq 98\%$

Cat. No.: X23-10-ZQ275

Size: 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD22420823

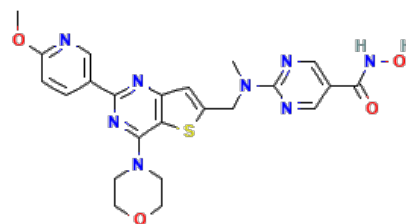
CAS Number: 1339928-25-4

Compound CID: 54575456

Synonym: 1339928-25-4; CUDC-907; Fimepinostat; CUDC 907; CUDC907;

PI3K/HDAC Inhibitor; Fimepinostat [USAN]; HDAC inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Fimepinostat, soluble in DMSO and insoluble in ethanol and water, induces DNA damage and the inhibition of DNA repair processes. It targets HDAC1, HDAC10, HDAC11, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HDAC8, and HDAC9.
Molecular Weight	508.6
Molecular Formula	C ₂₃ H ₂₄ N ₈ O ₄ S
Targets	HDAC1: 1.7 nM; HDAC10: 2.8 nM; HDAC11: 5.4 nM; HDAC2: 5.0 nM; HDAC3: 1.8 nM; HDAC4: 409 nM; HDAC5: 674 nM; HDAC6: 27 nM; HDAC7: 426 nM; HDAC8: 191 nM; HDAC9: 554 nM
IUPAC Name	<i>N</i> -Hydroxy-2-[[2-(6-methoxypyridin-3-yl)-4-morpholin-4-ylthieno[3,2-d]pyrimidin-6-yl]methyl-methylamino]pyrimidine-5-carboxamide
InChI	InChI=1S/C23H24N8O4S/c1-30(23-25-11-15(12-26-23)22(32)29-33)13-16-9-17-19(36-16)21(31-5-7-35-8-6-31)28-20(27-17)14-3-4-18(34-2)24-10-14/h3-4,9-12,33H,5-8,13H2,1-2H3,(H,29,32)
InChI Key	JOWXJLIFIIOYMS-UHFFFAOYSA-N
Canonical SMILES	CN(CC1=CC2=C(S1)C(=NC(=N2)C3=CN=C(C=C3)OC)N4CCOCC4)C5=NC=C(C=N5)C(=O)NO
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 87 mg/mL (171.07 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Fimepinostat is applied in studies to assess its dual inhibition of HDACs and phosphoinositide 3-kinase (PI3K) as a strategy for treating various cancers.



Storage

Store at -20°C.
