



Product Information

Histone demethylases inhibitor SP2509, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ397

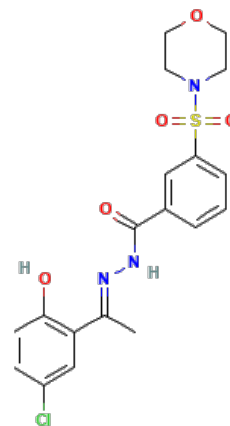
Size: 5 mg; 10 mg; 25 mg

CAS Number: 1423715-09-6

Compound CID: 135743577

Synonym: 1423715-09-6; SP-2509; HCl-2509; Histone demethylases inhibitor

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



Product Information

Description	SP2509, soluble in DMSO and insoluble in ethanol and water, prevents the removal of methyl groups from histones, influencing gene expression by maintaining histone methylation. It targets LSD1.
Molecular Weight	437.9
Molecular Formula	C ₁₉ H ₂₀ ClN ₃ O ₅ S
Targets	LSD1: 13 nM
IUPAC Name	<i>N</i> -[(<i>E</i>)-1-(5-chloro-2-hydroxyphenyl)ethylideneamino]-3-morpholin-4-ylsulfonylbenzamide
InChI	InChI=1S/C19H20ClN3O5S/c1-13(17-12-15(20)5-6-18(17)24)21-22-19(25)14-3-2-4-16(11-14)29(26,27)23-7-9-28-10-8-23/h2-6,11-12,24H,7-10H2,1H3,(H,22,25)/b21-13+
InChI Key	NKUDGJUBIVEDTF-FYJGNVAPSA-N
Canonical SMILES	CC(=NNC(=O)C1=CC(=CC=C1)S(=O)(=O)N2CCOCC2)C3=C(C=CC(=C3)Cl)O
Isomeric SMILES	C/C(=N\NC(=O)C1=CC(=CC=C1)S(=O)(=O)N2CCOCC2)/C3=C(C=CC(=C3)Cl)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 36 mg/mL (82.2 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	SP2509 can inhibit LSD1, facilitating research on its role in epigenetic regulation and cancer.
Storage	Store at -20°C.



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