



Product Information

Histone demethylases inhibitor KDM1/LSD1, Purity ≥98%

Cat. No.: X24-05-ZQ396

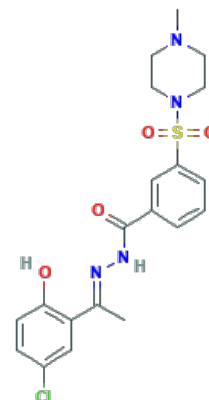
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1423715-37-0

Compound CID: 135565033

Synonym: 1423715-37-0; SP-2577; SP2577; SP 2577; Histone demethylases inhibitor

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



Product Information

Description	KDM1/LSD1, soluble in DMSO, water and ethanol, prevents the removal of methyl groups from histones, influencing gene expression by maintaining histone methylation.
Molecular Weight	450.94
Molecular Formula	C ₂₀ H ₂₃ ClN ₄ O ₄ S
IUPAC Name	<i>N</i> -[<i>(E)</i> -1-(5-chloro-2-hydroxyphenyl)ethylideneamino]-3-(4-methylpiperazin-1-yl)sulfonylbenzamide
InChI	InChI=1S/C20H23ClN4O4S/c1-14(18-13-16(21)6-7-19(18)26)22-23-20(27)15-4-3-5-17(12-15)30(28, 29)25-10-8-24(2)9-11-25/h3-7,12-13,26H,8-11H2,1-2H3,(H,23,27)/b22-14+
InChI Key	MVSQDUZRRVBYLA-HYARGMPZSA-N
Canonical SMILES	CC(=NNC(=O)C1=CC(=CC=C1)S(=O)(=O)N2CCN(CC2)C)C3=C(C=CC(=C3)Cl)O
Isomeric SMILES	C/C(=N\NC(=O)C1=CC(=CC=C1)S(=O)(=O)N2CCN(CC2)C)/C3=C(C=CC(=C3)Cl)O
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 86 mg/mL (190.71 mM); Water: <1 mg/mL; Ethanol: <1 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	KDM1/LSD1 inhibitors are used to study the role of LSD1 in gene repression and cancer.
Storage	Store at -20°C.