



Product Information

Histone demethylases inhibitor ML-324, Purity ≥98%

Cat. No.: X24-05-ZQ387

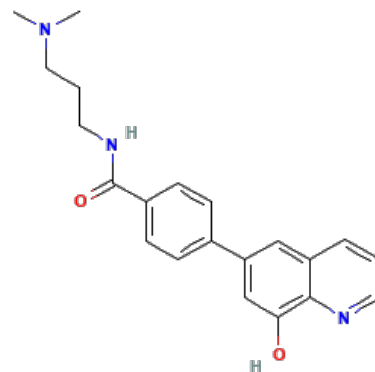
Size: 10 mg; 25 mg; 50 mg

CAS Number: 1222800-79-4

Compound CID: 44143209

Synonym: 1222800-79-4; ML 324; ML324; Histone demethylases inhibitor

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



Product Information

Description	ML-324, soluble in warmed DMSO and warmed ethanol and insoluble in water, prevents the removal of methyl groups from histones, influencing gene expression by maintaining histone methylation. It targets JMJD2.
Molecular Weight	349.43
Molecular Formula	C ₂₁ H ₂₃ N ₃ O ₂
Targets	JMJD2: 920 nM
IUPAC Name	<i>N</i> -[3-(dimethylamino)propyl]-4-(8-hydroxyquinolin-6-yl)benzamide
InChI	InChI=1S/C21H23N3O2/c1-24(2)12-4-11-23-21(26)16-8-6-15(7-9-16)18-13-17-5-3-10-22-20(17)19(25)14-18/h3,5-10,13-14,25H,4,11-12H2,1-2H3,(H,23,26)
InChI Key	QDBVSOZTVKXUES-UHFFFAOYSA-N
Canonical SMILES	CN(C)CCCNC(=O)C1=CC=C(C=C1)C2=CC(=C3C(=C2)C=CC=N3)O
Form	Lyophilized powder
Purity	≥98%
Solubility	Warmed DMSO: 38 mg/mL (108.74 mM); Water: Insoluble; Warmed ethanol: 3 mg/mL (8.58 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	ML-324 can be used to inhibit KDM4 demethylases, aiding studies in gene expression and cancer.
Storage	Store at -20°C.