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## UNC669

产品编号: D50758

CAS: 1314241-44-5

分子式: C<sub>15</sub>H<sub>20</sub>BrN<sub>3</sub>O

纯度: ≥98%

InChi: InChI=1S/C<sub>15</sub>H<sub>20</sub>BrN<sub>3</sub>O/c16-13-9-12(10-17-11-13)15(20)19-7-3-14(4-8-19)18-5-1-2-6-18/h9-11,14H,1-8H2

InChi Key: CQERVFFA0OUFEQ-UHFFFAOYSA-N

Smiles: O=C(C1C=NC=C(Br)C=1)N1CCCC(CC1)N1CCCC1

外观: 固体粉末

作用通路: Epigenetic Reader Domain

溶解性: DMSO up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: UNC669 is a potent and selective small molecule inhibitor for the methyl-lysine (Kme) reading function of L3MBTL1, a member of the malignant brain tumor (MBT) family of chromatin-interacting transcriptional repressors. UNC669 binds L3MBTL1 with a K<sub>d</sub> of 5 ± 1 μM (IC<sub>50</sub> = 6 ± 0.5 μM), exhibiting 5-fold greater affinity than the cognate peptide H4K20Me1, 6-fold selective over its close homologue L3MBTL3 and 10-fold selective over L3MBTL4. The first cocrystal structure of UNC669 bound to L3MBTL1 was determined and provides new insights into binding requirements for further ligand design. UNC669 can serve as a useful chemical tool to interrogate the functions of MBT proteins and probe methyl-lysine reader proteins as a target class.