www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

NMS-859

产品编号: D50815

CAS: 1449236-96-7

分子式: C15H12ClN3O3S

纯度: ≥98%

InChi: InChI=1S/C15H12ClN3O3S/c16-9-14(20)17-10-4-3-5-11(8-10)18-15-12-6-1-2-7-13(12)23(21,22)19-15/h1-8H,9H2,(H,17,20)(H,18,19)

InChi Key: JWMFLBAPPIWNGG-UHFFFAOYSA-N

Smiles: O=C(CCl)NC1=CC(=CC=C1)NC1=NS(=O)(=O)C2C=CC=CC=21

外观: 固体粉末

作用通路: p97

溶解性: DMSO up to 100 mM

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

产品介绍: NMS-859 is a potent and specific small molecule covalent inhibitor of the ATPase VCP/p97 (IC50 ~0.37 μM), identified by high-throughput screening. It is very selective (IC50 >10 μM) against all of the AAA ATPases, HSP90 or the 53 kinases tested. NMS-859 was active in a cell proliferation assay, with IC50 values of 3.5 μM and 3.0 μM in HCT116 and HeLa cell lines, respectively. NMS-859 covalently modifies VCP on the active site Cys522 and blocks ATP binding. NMS-859 provided critical validation of VCP as a cancer target, and it raises the possibility that targeting VCP might prevent proteasome inhibitor鈥揜esistant tumors from escaping through the aggresome-autophagy pathways and cause them to collapse under the high load of unfolded proteins.