
MRT68921

产品编号: D50967

CAS: 1190378-57-4

分子式: C₂₆H₃₆N₆O₂

纯度: ≥98%

InChi: InChI=1S/C₂₆H₃₆N₆O₂/c33-25(21-5-2-6-21)28-11-3-10-27-24-23(20-8-9-20)17-29-26(31-24)30-22-7-1-4-19(16-22)18-32-12-14-34-15-13-32/h1,4,7,16-17,20-21H,2-3,5-6,8-15,18H₂,(H,28,33)(H₂,27,29,30,31)

InChi Key: UKBGBACORPRCGG-UHFFFAOYSA-N

Smiles: O=C(NCCCCNC1=NC(NC2=CC(CN3CCOCC3)=CC=C2)=NC=C1C1CC1)C1CCC1

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 100 mM

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

产品介绍: MRT68921 is a potent, selective and dual autophagy kinase ULK1/2 inhibitor with IC₅₀ of 2.9 nM and 1.1 nM, respectively. It can inhibit ULK in vitro and block autophagy in cells. By generating the drug-resistant M92T ULK1 mutant, MRT68921 demonstrates to specifically block autophagic flux through ULK1 inhibition and disrupt autophagosome maturation, not through AMPK-related kinase involvement. ULK1 inhibition results in accumulation of stalled early autophagosomal structures, indicating a role for ULK1 in the maturation of autophagosomes as well as initiation.