
KRAS-C9

产品编号: D50881

CAS: 1469337-91-4

分子式: C₁₆H₂₁ClIN₃O₄S

纯度: ≥98%

InChi: InChi=1S/C₁₆H₂₁ClIN₃O₄S/c1-3-26(23,24)20-11-4-6-21(7-5-11)16(22)10-19-14-9-13(18)12(17)
8-15(14)25-2/h3,8-9,11,19-20H,1,4-7,10H2,2H3

InChi Key: ZGUSBCDCZNBNT-UHFFFAOYSA-N

Smiles: COC1C=C(Cl)C(I)=CC=1NCC(=O)N1CCC(CC1)NS(=O)(=O)C=C

外观: 固体粉末

溶解性: DMSO up to 100 mM

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

产品介绍: KRAS-C9 is a potent and selective allosteric inhibitor of oncogenic K-Ras(G12C). It irreversibly binds to a common oncogenic mutant K-Ras(G12C) and blocks K-Ras(G12C) interactions, therefore does not affect the wild-type protein. Binding of KRAS-C9 to K-Ras(G12C) disrupts both switch-I and switch-II, subverting the native nucleotide preference to favour GDP over GTP and impairing binding to Raf. It can decrease viability and increase apoptosis of K-Ras(G12C)-containing cancer cell lines. KRAS-C9 provides structure-based validation of a new allosteric regulatory site on Ras that is targetable in a mutant-specific manner.