
UNC2170

产品编号: D50919

CAS: 2173992-60-2

分子式: C₁₈H₂₅BrN₂O₅

纯度: ≥98%

InChi: InChi=1S/C₁₄H₂₁BrN₂O.C₄H₄O₄/c1-14(2,3)17-9-5-8-16-13(18)11-6-4-7-12(15)10-11;5-3(6)1-2-4(7)8/h4,6-7,10,17H,5,8-9H2,1-3H3,(H,16,18);1-2H,(H,5,6)(H,7,8)/b;2-1-

InChi Key: WCAATDGMINWXPJ-BTJKTKAUSA-N

Smiles: CC(C)(C)NCCCNC(=O)C1=CC(Br)=CC=C1.OC(=O)/C=C\C(O)=O

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: UNC2170 is a selective and cell permeable methyl-lysine binding protein 53BP1 antagonist with micromolar activity. It displays >17-fold selectivity for 53BP1 as compared to other methyl-lysine (Kme) binding proteins tested. Structural studies revealed that the tert-butyl amine of UNC2170 anchors the compound in the methyl-lysine (Kme) binding pocket of 53BP1, making it competitive with endogenous Kme substrates. X-ray crystallography also demonstrated that UNC2170 binds at the interface of two tudor domains of a 53BP1 dimer. It functions as a 53BP1 antagonist in cellular lysates and shows cellular activity by suppressing class switch recombination, a process which requires a functional 53BP1 tudor domain.