
PTC-209

产品编号: D50825

CAS: 315704-66-6

分子式: C₁₇H₁₃Br₂N₅O₅

纯度: ≥98%

InChi: InChI=1S/C₁₇H₁₃Br₂N₅O₅/c1-9-15(24-5-3-4-20-16(24)21-9)13-8-26-17(22-13)23-14-11(18)6-10(25-2)7-12(14)19/h3-8H,1-2H3,(H,22,23)

InChi Key: XVOOCQSWCCRVDY-UHFFFAOYSA-N

Smiles: CC1N=C2N=CC=CN2C=1C1=CSC(NC2C(Br)=CC(=CC=2Br)OC)=N1

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 50 mM

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

产品介绍: PTC-209 is a novel potent and selective BMI-1 inhibitor, targeting the BMI-1 self-renewal machinery with an IC₅₀ of ~0.5 μM. Tumor formation and, more specifically, human colorectal cancer-initiating cells (CIC) are dependent on the canonical self-renewal regulator BMI-1. Down-regulation of BMI-1 inhibits the ability of colorectal CICs to self-renew, resulting in the abrogation of their tumorigenic potential. Treatment of primary colorectal cancer xenografts with the small-molecule BMI-1 inhibitor PTC-209 resulted in colorectal CIC loss with long-term and irreversible impairment of tumor growth. Targeting the BMI-1 self-renewal machinery represents a promising approach to the elimination of many cancer stem (and initiating) cells.