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SCR7

产品编号: D50757
CAS: 1533426-72-0
分子式: C18H14N4OS
纯度: ≥98%
InChi: InChI=1S/C18H14N4OS/c23-17-15(19-11-13-7-3-1-4-8-13)16(21-18(24)22-17)20-12-14-9-5-2-6-10-14/h1-12H,(H2,21,22,23,24)/b19-11+,20-12+
InChi Key: NEEVCWPRIZJJRJ-AYKLPDECSA-N
Smiles: OC1=NC(S)=NC(N=CC2C=CC=CC=2)=C1N=CC1C=CC=CC=1 |t:7,18|
外观: 固体粉末
作用通路: Apoptosis
溶解性: DMSO up to 50 mM
保存条件: Store in dry, dark place for one year.
产品介绍: SCR7 is a potent and selective inhibitor of non-homologous end joining (NHEJ). It inhibits joining of DSBs in cell-free DNA repair system, blocks Ligase IV-mediated joining by interfering with its DNA binding but not that of T4 DNA Ligase or Ligase I, thereby leading to accumulation of DSBs within the cells, culminating into cytotoxicity. SCR7 inhibits NHEJ in a Ligase IV-dependent manner within cells, and activates the intrinsic apoptotic pathway. More importantly, SCR7 impedes tumor progression in mouse models, and when co-administered with DSB-inducing therapeutic modalities it enhances their sensitivity significantly. In addition, SCR7 can promote the efficiency of HDR 4鈥?-fold for CRISPR editing in both human and mouse cell lines.