
UM171

产品编号: D50885

CAS: 1448724-09-1

分子式: C₂₅H₂₉Cl₂N₉

纯度: ≥98%

InChi: InChI=1S/C₂₅H₂₇N₉.2ClH/c1-34-32-23(31-33-34)16-7-12-19-20(14-16)28-25-22(19)24(27-18-10-8-17(26)9-11-18)29-21(30-25)13-15-5-3-2-4-6-15;;/h2-7,12,14,17-18H,8-11,13,26H₂,1H₃, (H₂, 27,28,29,30);2*1H/t17-,18-;;

InChi Key: HMZHPVMDZWVCJD-PMXFUEHMSA-N

Smiles: Cl.Cl.CN1N=C(N=N1)C1=CC=C2C(=C1)NC1=NC(CC3C=CC=CC=3)=NC(N[C@@H]3CC[C@@H](N)CC3)=C21

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: UM171 is a potent small molecule that stimulates the ex vivo expansion of human hematopoietic stem cells/HSC capable of reconstituting human hematopoiesis for at least 6 months in immunocompromised mice. It attenuates cell differentiation and promotes ex vivo expansion of long-term human HSC (LT-HSC) at 35 nM in 11 days fed-batch cultures. UM171's mechanism is independent of suppression of the aryl hydrocarbon receptor (AHR) like SR1. The properties of UM171 make it a potential candidate for hematopoietic stem cell transplantation and gene therapy.