
StemRegenin1 (SR1)

产品编号: D50702

CAS: 1227633-49-9

分子式: C₂₄H₂₃N₅O₅

纯度: ≥98%

InChi: InChi=1S/C₂₄H₂₃N₅O₅/c1-15(2)29-14-26-21-23(25-12-11-16-7-9-17(30)10-8-16)27-22(28-24(21)29)19-13-31-20-6-4-3-5-18(19)20/h3-10,13-15,30H,11-12H₂,1-2H₃, (H,25,27,28)

InChi Key: BGFHMYJZJZLMHW-UHFFFAOYSA-N

Smiles: CC(C)N1C=NC2=C(NCCC3C=CC(O)=CC=3)N=C(N=C12)C1=CSC2=CC=CC=C21

外观: 固体粉末

作用通路: Aryl Hydrocarbon Receptor

溶解性: DMSO up to 100 mM

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

产品介绍: StemRegenin1 (SR1) is a selective, cell-permeable antagonist of aryl hydrocarbon receptor. It can promote robust expansion and self-renewal of human CD34⁺ peripheral blood and cord blood hematopoietic stem cells (HSCs, EC₅₀ ~120 nM). SR1 expanded CD34⁺ cells from bone marrow of humans, monkeys and dogs, but not mice. Culture of HSCs with 1 μM SR1 for 21 days led to a 50-fold increase in cells expressing CD34 and a 17-fold increase in cells that retain the ability to engraft immunodeficient mice. Currently Novartis is conducting clinical trials, “LFU835-expanded Umbilical Cord Blood Hematopoietic Stem Cells in Patients With Hematological Malignancies related to this research.