
JNJ-42041935

产品编号: D50942

CAS: 1193383-09-3

分子式: C₁₂H₆ClF₃N₄O₃

纯度: ≥98%

InChi: InChi=1S/C12H6ClF3N4O3/c13-6-1-7-8(2-9(6)23-12(14,15)16)19-11(18-7)20-4-5(3-17-20)10(21)22/h1-4H,(H,18,19)(H,21,22)

InChi Key: FXHHASJVTYRJHH-UHFFFAOYSA-N

Smiles: OC(=O)C1C=NN(C=1)C1NC2C=C(OC(F)(F)F)C(Cl)=CC=2N=1

外观: 固体粉末

作用通路: HIF/HIF Prolyl-Hydroxylase

溶解性: DMSO up to 100 mM

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

产品介绍: JNJ-42041935 is a potent and selective HIF-PHD inhibitor. It is a 2-OG competitive and reversible inhibitor for PHD enzymes (pK_is = 7.91, 7.29, and 7.65 for PHD1, 2, and 3, respectively). It is >100-fold selective for PHD compared to the related FIH (factor-inhibiting HIF) and a panel of various other enzymes. In an inflammation-induced anemia model in rats, 100 μM/kg/day JNJ-42041935 significantly increased the number of circulating reticulocytes and red blood cells, increased blood hemoglobin and hematocrit, and restored mean corpuscular volume and mean cell hemoglobin of red blood cells. JNJ-42041935 is a new pharmacological tool, which can be used to investigate PHD inhibition and demonstrate that PHD inhibitors offer great promise for the treatment of inflammation-induced anemia.