
FPH1

产品编号: D50796

CAS: 708219-39-0

分子式: C₁₆H₁₅ClF₂N₂O₃S

纯度: ≥98%

InChi: InChI=1S/C₁₆H₁₅ClF₂N₂O₃S/c1-10-6-7-11(17)8-14(10)21(25(2,23)24)9-15(22)20-16-12(18)4-3-5-13(16)19/h3-8H,9H2,1-2H3,(H,20,22)

InChi Key: WAOBCCBUTHNTFO-UHFFFAOYSA-N

Smiles: CC1C=CC(Cl)=CC=1N(CC(=O)NC1C(F)=CC=CC=1F)S(C)(=O)=O

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: FPH1 is a potent and selective small molecule that induced Functional Proliferation of primary human Hepatocytes in vitro, identified by a high-throughput, cell-based screening using primary human hepatocytes. It induced a significant increase in hepatocyte number and elevated the number of hepatocytes undergoing mitosis in a dose-dependent manner. Cells treated with FPH1 also maintained their liver-specific functions. Immunofluorescence staining for Ki67 and albumin, along with FACS-based cell counting, revealed that hepatocytes from a wide range of genetically diverse individuals could be expanded and normal hepatocytes functions could be maintained after expansion. FPH1 can also promote the differentiation of iPS cells toward a hepatic lineage and promote the maturation of induced hepatic cells toward a more adult-like liver phenotype.