
MC1568

产品编号: D50886

CAS: 852475-26-4

分子式: C₁₇H₁₅N₂O₃

纯度: ≥98%

InChi: InChI=1S/C₁₇H₁₅N₂O₃/c1-20-14(5-6-15(20)8-10-17(22)19-23)7-9-16(21)12-3-2-4-13(18)11-12/h2-11,23H,1H3,(H,19,22)/b9-7+,10-8+

InChi Key: QQDIFLSJMFDTTCQ-FIFLTTCSA-N

Smiles: CN1C(C=CC(=O)C2=CC(F)=CC=C2)=CC=C1C=CC(=O)NO

外观: 固体粉末

作用通路: HDAC

溶解性: DMSO up to 100 mM

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

产品介绍: MC1568 is a potent and selective inhibitor of class IIa histone deacetylases (HDACs), with IC₅₀ of 100 nM for maize HD1-A. It is 34-fold more selective for HD1-A than HD1-B, 176-fold more selective for class I HDACs. It exhibits tissue-selective inhibition between members of class II deacetylases in vivo; inhibits HDAC4 and HDAC5 in skeletal muscle and the heart without affecting HDAC3 activity. It arrests myogenesis through the stabilization of myocyte enhancer factor 2D (MEF2D)-HDAC3/4 complex. In a recent study of pancreatic explants, MC1568 enhances expression of Pax4, a key factor required for proper β- and δ-cell differentiation and amplifies endocrine β- and δ-cells.