
Sephin1

产品编号: D50938

CAS: 951441-04-6

分子式: C₉H₁₁ClN₄O₃

纯度: ≥98%

InChi: InChI=1S/C₈H₉ClN₄.CH₂O₃/c9-7-4-2-1-3-6(7)5-12-13-8(10)11;2-1(3)4/h1-5H,(H₄,10,11,13);(H
2,2,3,4)/b12-5+;

InChi Key: LCQVFBONUDQAEH-NKPNRJPBSA-N

Smiles: [H]/N=C(\N)/NN=CC1C=CC=CC=1Cl.OC(O)=O

外观: 固体粉末

作用通路: Phosphatase

溶解性: DMSO up to 100 mM

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

产品介绍: Sephin1 is a selective inhibitor of a holophosphatase. Sephin1 safely and selectively inhibited a regulatory subunit of protein phosphatase 1 in vivo. Sephin1 selectively bound and inhibited the stress-induced PPP1R15A, but not the related and constitutive PPP1R15B, to prolong the benefit of an adaptive phospho-signaling pathway, protecting cells from otherwise lethal protein misfolding stress. In vivo, Sephin1 safely prevented the motor, morphological, and molecular defects of two otherwise unrelated protein-misfolding diseases in mice, Charcot-Marie-Tooth 1B, and amyotrophic lateral sclerosis. Sephin1 may have potential to safely prevent two protein misfolding diseases.