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SB431542

产品编号: D50714

CAS: 301836-41-9

分子式: C22H16N4O3

纯度: ≥98%

InChi: InChI=1S/C22H16N4O3/c23-21(27)13-4-6-14(7-5-13)22-25-19(20(26-22)16-3-1-2-10-24-16)15-8-9-17-18(11-15)29-12-28-17/h1-11H,12H2,(H2,23,27)(H,25,26)

InChi Key: FHYUGAJXYORMHI-UHFFFAOYSA-N

Smiles: NC(=O)C1C=CC(=CC=1)C1NC(=C(N=1)C1=CC2OCOC=2C=C1)C1C=CC=CN=1

外观: 固体粉末

作用通路: TGF-β Receptor

溶解性: DMSO up to 100mM

保存条件: Powder: -20°C for 3 years ;In solvent: -80°C for 1 year.

产品介绍: SB-431542 is a potent and selective inhibitor of TGF-β type I receptors ALK5 (IC50 ~94 nM), ALK4 (IC50 ~140 nM) and ALK7. It has no activities on the other ALK family members such as ALK2, ALK3 and ALK6, nor on components of the ERK, JNK, and p38 MAP kinase pathways. It specifically blocks Smad2 signaling, modulating gene expression related to EMT. In several publications SB-431542 has been used to enhance iPSC reprogramming, induce neural differentiation of human pluripotent stem cells, and promote naive state of pluripotent stem cells.