
LDN-193189

产品编号: D50708

CAS: 1062368-24-4

分子式: C₂₅H₂₂N₆

纯度: ≥98%

InChi: InChi=1S/C₂₅H₂₂N₆/c1-2-4-24-22(3-1)21(9-10-27-24)23-16-29-31-17-19(15-28-25(23)31)18-5-7-20(8-6-18)30-13-11-26-12-14-30/h1-10,15-17,26H,11-14H2

InChi Key: CDOVNWNANFFLFJ-UHFFFAOYSA-N

Smiles: C1CNCCN1C1C=CC(=CC=1)C1=CN2N=CC(=C2N=C1)C1=CC=NC2=CC=CC=C21

外观: 固体粉末

作用通路: TGF-β Receptor

溶解性: DMSO up to 100 mM

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

产品介绍: LDN-193189 is a cell-permeable, highly potent and selective BMP pathway inhibitor by inhibiting BMP type I receptors ALK2 (IC₅₀=5 nM) and ALK3 (IC₅₀=30 nM), but not ALK4, ALK5, and ALK7 (> 0.5 μM). It prevents Smad1, Smad5, and Smad8 phosphorylation. It is a useful tool compound to modulate stem cell differentiation (for example, neural differentiation of human ESC/iPSC in combination with SB431542). It was also used in animal models to treat FOP and ectopic ossification, as well as NSCLC lung cancer.