
LDN-212854

产品编号: D51460

CAS: 1432597-26-6

分子式: C₂₅H₂₂N₆

纯度: ≥98%

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

InChi Key: BBDGBGOVJPEFBT-UHFFFAOYSA-N

Smiles: C1CNCCN1C1C=CC(=CC=1)C1=CN2N=CC(=C2N=C1)C1C=CC=C2N=CC=CC=12

外观: 固体粉末

作用通路: TGF-β Receptor

溶解性: DMSO : ≥30 mg/mL (73.80 mM)

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

产品介绍: LDN-212854 is a potent and selective BMP receptor inhibitor with IC₅₀ of 1.3 nM for ALK2. LDN-212854 exhibits some selectivity for ALK2 in preference to other BMP type I receptors, ALK1 and ALK3, which may permit the interrogation of ALK2-mediated signaling, transcriptional activity, and function. LDN-212854 potently inhibits heterotopic ossification in an inducible transgenic mutant ALK2 mouse model of fibrodysplasia ossificans progressiva. The bone morphogenetic protein (BMP) signaling pathway has essential functions in development, homeostasis, and the normal and pathophysiologic remodeling of tissues. Small molecule inhibitors of the BMP receptor kinase family have been useful for probing physiologic functions of BMP signaling in vitro and in vivo and may have roles in the treatment of BMP-mediated diseases.