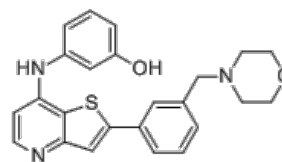


Product Name : LCB 03-0110
Synonyms : LCB03-0110
Cat No. : M10885
CAS Number : 1228102-01-9
Molecular Formula : C₂₄H₂₃N₃O₂S
Formula Weight : 417.53
Chemical Name : 3-[[2-[3-(4-Morpholinylmethyl)phenyl]thieno[3,2-b]pyridin-7-yl]amino]phenol



Description : LCB 03-0110 is a potent, ATP-competitive inhibitor of Discoidin domain receptor (DDR) family and c-Src tyrosine kinase family, as well as Btk and Syk; potently inhibits the activated tyrosine kinase activity of DDR2 (IC₅₀=6 nM), and nonactivated form of DDR2 (IC₅₀=145 nM); suppresses collagen-induced autophosphorylation of DDR1 and DDR2 with IC₅₀ of 164 and 171 nM in cell-based assays; inhibits all eight Src family kinases with IC₅₀ of 2-20 nM; suppresses the proliferation and migration of primary dermal fibroblasts induced by TGF β1 and type I collagen (IC₅₀=194 nM), inhibits cell migration and nitric oxide, iNOS, COX2, and TNF-α synthesis in LPS-activated J774A.1 macrophage cells; suppresses hypertrophic scar formation in wound healing models.

Pathway : Tyrosine Kinase

Target : DDR

Receptor : DDR

Solubility : —

SMILES : OC1=CC=CC(NC2=C3C(C=C(C4=CC=CC(N5CCOCC5)=C4)S3)=NC=C2)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Sun X, et al. J Pharmacol Exp Ther. 2012 Mar;340(3):510-9. | 2. Jung SH, et al. Br J Dermatol. 2013 Jan;168(1):112-9. | 3. Kim BH, et al. Exp Dermatol. 2015 Jul;24(7):503-9.