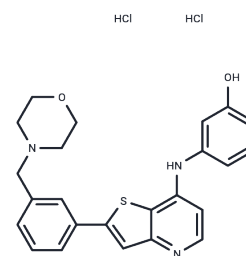


LCB 03-0110 dihydrochloride

Chemical Properties

CAS No. :	1962928-28-4
Formula:	C ₂₄ H ₂₅ Cl ₂ N ₃ O ₂ S
Molecular Weight:	490.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	LCB 03-0110 Dihydrochloride is a potent inhibitor of the c-Src kinase (IC ₅₀ = 1.3 nM) and tyrosine kinases in the BTK and SYK family, as well as in the DDR2 family. It inhibits LPS-induced activation of macrophages and TGF-β ₁ -induced activation of fibroblasts in vitro, inhibits activation of macrophages and fibroblasts, and inhibits scarring in wound healing models.
Targets(IC ₅₀)	Src
In vitro	LCB 03-0110 treatment of cells exposed to TGF-β ₁ and type I collagen showed a marked inhibition preferentially in the phosphorylation of tyrosine 861, to give approximately 50% reduction at 1 μM and an almost complete abolishment at 3 μM.

Solubility Information

Solubility	DMSO: 150 mg/mL (305.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0389 mL	10.1947 mL	20.3894 mL
5 mM	0.4078 mL	2.0389 mL	4.0779 mL
10 mM	0.2039 mL	1.0195 mL	2.0389 mL
50 mM	0.0408 mL	0.2039 mL	0.4078 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sun X, Phan TN, Jung SH, Kim SY, Cho JU, Lee H, Woo SH, Park TK, Yang BS. LCB 03-0110, a novel pan-discoidin domain receptor/c-*Src* family tyrosine kinase inhibitor, suppresses scar formation by inhibiting fibroblast and macrophage activation. *J Pharmacol Exp Ther*. 2012 Mar;340(3):510-9. doi: 10.1124/jpet.111.187328. Epub 2011 Nov 29. PMID: 22128347.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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