

**Product Name:** LCB 03-0110 dihydrochloride

**Catalog No.:** 5592

**Batch No.:** 1

CAS Number: 1962928-28-4

IUPAC Name: 3-[[2-[3-(4-Morpholinylmethyl)phenyl]thieno[3,2-b]pyridin-7-yl]amino]phenol dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>24</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>S.2HCl.2H<sub>2</sub>O

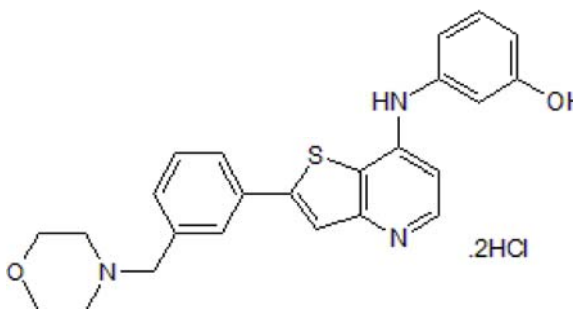
**Batch Molecular Weight:** 526.48

**Physical Appearance:** Yellow solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.5 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

**HPLC:** Shows 99.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	54.75	5.55	7.98	13.47
Found	54.68	5.3	7.79	13.48

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

LCB 03-0110 dihydrochloride is a potent c-Src kinase inhibitor (IC<sub>50</sub> = 1.3 nM). Also potent inhibitor of discoidin domain receptor 2 (DDR2) family tyrosine kinases, BTK and Syk. Suppresses LPS-induced activation of macrophages and TGF-β1- induced activation of fibroblasts in vitro. Also inhibits activation of macrophages and fibroblasts and suppresses scar formation in a wound healing model.

**Physical and Chemical Properties:**

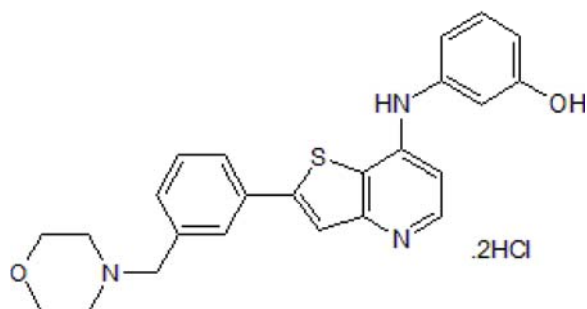
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Batch Molecular Weight: 526.48

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Sun et al** (2012) 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.* **340** 510. PMID: 22128347.

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