

Certificate of Analysis

Product Name: LCB 03-0110 dihydrochloride

Catalog No.: 5592

Batch No.: 1

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: $C_{24}H_{23}N_3O_2S \cdot 2HCl \cdot 2H_2O$

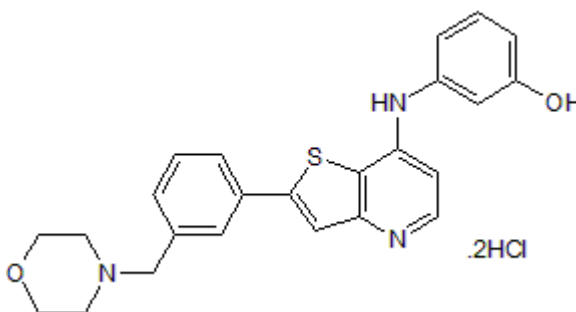
Batch Molecular Weight: 526.48

Physical Appearance: Yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.5$ (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 99.6% purity

1H 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:

Potent c-Src kinase inhibitor ($IC_{50} = 1.3 \text{ nM}$). Also potent inhibitor of discoidin domain receptor 2 (DDR2) family tyrosine kinases, BTK and Syk. Suppresses LPS-induced activation of macrophages and TGF- β 1- 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:

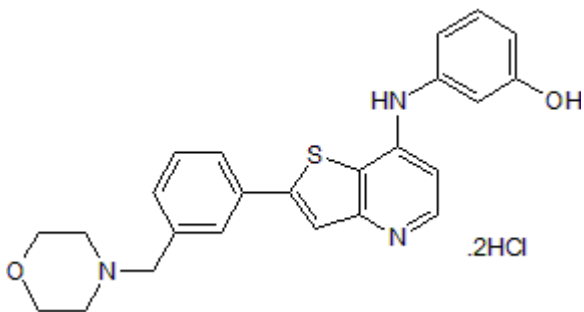
Batch Molecular Formula: $C_{24}H_{23}N_3O_2S \cdot 2HCl \cdot 2H_2O$

Batch Molecular Weight: 526.48

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

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.

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