Print Date: Mar 17th 2020

Certificate of Analysis

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Product Name: **LDN 209929 dihydrochloride** **Catalog No.: 4828** **Batch No.: 2**

CAS Number: 1784281-97-5

IUPAC Name: 3-[(2-Chloro-7-methoxy-9-acridinyl)thio]-1-propanamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{17}ClN_2OS.2HCl.2H_2O$

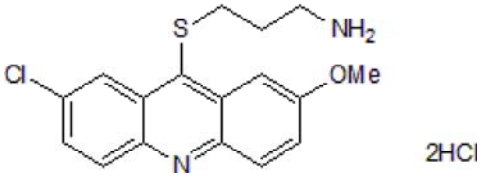
Batch Molecular Weight: 441.8

Physical Appearance: Orange solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Dichloromethane:Methanol [9:1])

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.22	5.25	6.34
Found	46.02	4.94	6.33

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Product Information

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CAS Number: 1784281-97-5

IUPAC Name: 3-[(2-Chloro-7-methoxy-9-acridinyl)thio]-1-propanamine dihydrochloride

Description:

Potent and selective haspin kinase inhibitor (IC_{50} = 55 nM). Displays 180-fold selectivity over DYRK2.

Physical and Chemical Properties:

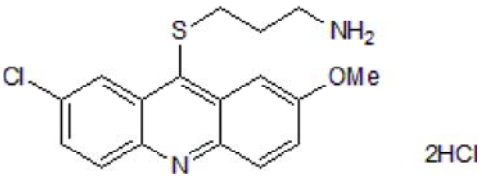
Batch Molecular Formula: $C_{17}H_{17}ClN_2OS.2HCl.2H_2O$

Batch Molecular Weight: 441.8

Physical Appearance: Orange 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:

Cuny *et al* (2010) Structure-activity relationship study of acridine analogs as haspin and DYRK2 kinase inhibitors. Bioorg.Med.Chem.Lett. ***20*** 3491. PMID: 20836251.