a biotechne brand

Print Date: Nov 28th 2022

Certificate of Analysis

www.tocris.com

Product Name: ML 7 hydrochloride

CAS Number: 110448-33-4

IUPAC Name: Hexahydro-1-[(5-iodo-1-naphthalenyl)sulfonyl]-1H-1,4-diazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight:

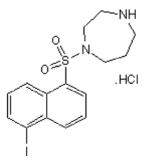
Physical Appearance:

Solubility:

Storage:

Batch Molecular Structure:

C₁₅H₁₇IN₂O₂S.HCl 452.74 Pale yellow solid DMSO to 50 mM Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

	ourbonn	iyalogol	intiaogen
Theoretical	39.79	4.01	6.19
Found	39.71	3.94	6.12

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

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Catalog No.: 4310

Batch No.: 3

TOCRIS a biotechne brand

Product Information

Print Date: Nov 28th 2022

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Product Name: ML 7 hydrochloride

CAS Number: 110448-33-4

IUPAC Name: Hexahydro-1-[(5-iodo-1-naphthalenyl)sulfonyl]-1*H*-1,4-diazepine hydrochloride

Description:

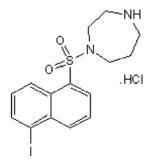
ML 7 hydrochloride is a selective MLCK inhibitor (K_i = 0.3 μ M). Exhibits more potent inhibition than ML 9 hydrochloride (Cat. No. 0431) Displays reversible, ATP-competitive inhibition of Ca²⁺-calmodulin-dependent and -independent smooth muscle MLCKs. Inhibits proplatelet formation and stabilization.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₇IN₂O₂S.HCl Batch Molecular Weight: 452.74 Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 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:

Meinders *et al* (2015) Sp1/Sp3 transcription factors regulate hallmarks of megakaryocyte maturation and platelet formation and function. Blood **125** 1957. PMID: 25538045.

Saitoh et al (1987) Selective inhibition of catalytic activity of smooth muscle myosin light chain kinase. J.Biol.Chem. 262 7796. PMID: 3108259.

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