Datasheet

Product overview

Name: ML-7 hydrochloride  
Cat No: HB0415  
Short description: Selective MLCK inhibitor  
Biological description: Selective myosin light chain kinase (MLCK) inhibitor (Ki = 0.3 µM). Shows reversible ATP- competitive inhibition of Ca²⁺-calmodulin independent/ dependant smooth muscle MLCK. Approx 10-fold more potent inhibitor than ML-9. Shows antiglaucomatous actions.  
Biological action: Inhibitor  
Purity: >99%

Properties

Chemical name: Hexahydro-1-[(5-iodo-1-naphthalenyl)sulfonyl]-1H-1,4-diazepine hydrochloride  
Molecular Weight: 452.74  
Chemical structure:

![Chemical structure of ML-7 hydrochloride]

Molecular Formula: C₁₅H₁₇I₂N₂O₂S.HCl  
CAS Number: 110448-33-4  
PubChem identifier: 9803932  
SMILES: C1CNCCN(C1)S(=O)(=O)C2=CC=CC3=C2C=CC=C3I.Cl  
InChiKey: KDDALCDYHZIZMH-UHFFFAOYSA-N

Storing and Using Your Product

Storage instructions: room temperature (desiccate)  
Solubility overview: Soluble in DMSO (25mM)  
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for ML-7 hydrochloride

Selective inhibition of catalytic activity of smooth muscle myosin light chain kinase.  
PubMedID: 3108259
The specificities of protein kinase inhibitors: an update.


PubMedID: 12534346

Effects of ML-7 and Y-27632 on carbachol- and endothelin-1-induced contraction of bovine trabecular meshwork.


PubMedID: 15939040