Web: www.taiclone.com
Tel: +886-2-2735-9682
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ML-7 (hydrochloride)

Catalog No: tcsc0850

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
110448-33-4

Formula:
$C_{15}H_{18}ClIN_2O_2S$

Pathway:
Cytoskeleton

Target:
Myosin

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 43 mg/mL (94.98 mM)

Observed Molecular Weight:
452.74

Product Description

ML-7 hydrochloride is a naphthalene sulphonamide derivative, potently inhibits **MLCK** (**IC_{50}**=300 nM) and TRPC6 channel (IC_{50}>10 μM).

IC50 & Target: IC50: 300 nM (MLCK)[1]

In Vitro: ML-7 hydrochloride inhibits rabbit portal vein α1-adrenoceptor NSCC with IC_{50} of 0.8 μM[1]. The myosin light chain kinase

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(MLCK) inhibitor ML-7 hydrochloride (3 μ M and 10 μM) also attenuates the Dexmedetomidine (DMT)-induced contraction (p[2].

In Vivo: In sham operated animals Evans Blue extravasation is not different between ML-7 hydrochloride and vehicle group (sham+vehicle: 0.26±0.02 OD/g; sham+ML-7: 0.26±0.02 OD/g). After CCI inhibition of MLCK with ML-7 results in a significant lower amount of intracerebral Evans Blue compared to vehicle treated animals (CCI+vehicle: 0.42±0.04 OD/g; CCI+ML-7: 0.35±0.05 OD/g, p=0.048)[3].