

W-7 Hydrochloride

Catalog No. PKI-W7-100

Batch No: 8

Description: W-7 is a calmodulin antagonist that binds to calmodulin and inhibits Ca^{2+} / calmodulin-regulated enzyme activities of myosin light chain kinase (MLCK, $\text{IC}_{50} = 51 \mu\text{M}$) and Ca^{2+} /calmodulin-regulated phosphodiesterase (PDE I, $\text{IC}_{50} = 28 \mu\text{M}$). It is also a vascular relaxing agent which affects vascular smooth muscle actomyosin and produces relaxation of isolated rabbit arterial strips.

Molecular Weight: 377.33

Solubility: soluble in hot water, methanol or DMSO.

Chemical Formula: $\text{C}_{16}\text{H}_{21}\text{ClN}_2\text{O}_2\text{S} \cdot \text{HCl}$.

Appearance: white solid.

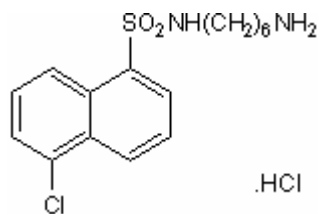
CAS No: [61714-27-0]

Melting Point (°C): 227

Solubility: Water to 5 mM / Ethanol to 5 mM

Storage: Store at RT

Structure:



ANALYTICAL DATA

TLC: $R_f = 0.43$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows 100% purity

^1H NMR: Consistent with authentic reference material