

Product Name	: A-3 hydrochloride
Synonyms	: —
Cat No.	: M22434
CAS Number	: 78957-85-4
Molecular Formula	: C ₁₂ H ₁₄ Cl ₂ N ₂ O ₂ S
Formula Weight	: 321.22
Chemical Name	: —
Description	A-3 hydrochloride is a potent, cell-permeable, reversible, ATP-competitive non-selective antagonist of various kinases. A-3 hydrochloride also inhibits PKC and casein kinase I with K_i values of 47 μM and 80 μM, respectively. A-3 hydrochloride against PKA (K_i=4.3 μM), casein kinase II (K_i=5.1 μM) and myosin light chain kinase (MLCK) (K_i=7.4 μM). A-3 hydrochloride inhibits MLC-kinase competitively with respect to ATP and that the K_i value is 7.4 μM, and it is also a competitive inhibitor of cAMP-dependent protein kinase, cGMP-dependent protein kinase, protein kinase C, casein kinase I, and casein kinase II, with respect to ATP, exhibits K_i values of 4.3 μM, 3.8 μM, 47 μM, 80 μM, and 5.1 μM, respectively.
Pathway	: Metabolic Enzyme/Protease
Target	: Casein Kinase
Receptor	: CK1;CK2;PKC;PKA
Solubility	: DMSO: 125 mg/mL (389.14 mM; Need ultrasonic)
SMILES	: Cl.NCCNS(=O)(=O)c1cccc2c(Cl)cccc12
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Inagaki M, et al. Naphthalenesulfonamides as calmodulin antagonists and protein kinase inhibitors. Mol Pharmacol. 1986 Jun;29(6):577-81.