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DATASHEET

A-7 hydrochloride

Product overview

Name	A-7 hydrochloride
Cat No	HB0097
Biological action	Antagonist
Description	Potent, cell-permeable calmodulin (CaM) antagonist

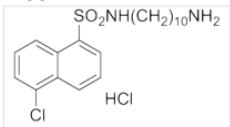
Biological Data

Biological description	Potent calmodulin antagonist. Cell permeable. Naphthalenesulfonamide W-7 analog. Inhibits calmodulin activated PDE activity ($IC_{50} = 3 \mu M$).
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	N-(10-Aminodecyl)-5-chloro-1-naphthalenesulfonamide hydrochloride
Molecular Weight	433.44
Chemical structure	 <p>The chemical structure shows a naphthalene ring system with a chlorine atom at the 5-position and a sulfonamide group at the 1-position. The sulfonamide group is attached to a decyl chain ending in an amino group. The structure is shown as a hydrochloride salt.</p>
Molecular Formula	$C_{20}H_{29}ClN_2O_2S \cdot HCl$
CAS Number	79127-24-5
PubChem identifier	44119113
SMILES	<chem>C1=CC2=C(C=CC=C2Cl)C(=C1)S(=O)(=O)NCCCCCCCCCN.Cl</chem>
InChiKey	XDJCAQBTSCRBS-UHFFFAOYSA-N

References

Naphthalenesulfonamides as calmodulin antagonists.

Hidaka H *et al* (1983) *Methods Enzymol* 102
PubMedID [6139736](#)

Direct interaction of calmodulin antagonists with Ca²⁺/calmodulin-dependent cyclic nucleotide phosphodiesterase.

Itoh H *et al* (1984) *J Biochem* 96(6)
PubMedID [6099352](#)

