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DATASHEET

W-5 hydrochloride

Product overview

Name	W-5 hydrochloride
Cat No	HB0649
Alternative names	W-5; W5
Biological action	Antagonist
Purity	>98%
Description	Calmodulin (CaM) antagonist

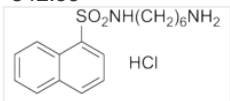
Biological Data

Biological description	Calmodulin (CaM) antagonist. Reverses the inhibitory effect of insulin via dibutyl cAMP. A chlorine-deficient inactive analogue of W-7.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (50mM) or water (10mM)
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-(6-Aminohexyl)-1-naphthalenesulfonamide hydrochloride
Molecular Weight	342.88
Chemical structure	 The chemical structure shows a naphthalene ring system with a sulfonamide group (-SO ₂ NH(CH ₂) ₆ NH ₂) attached to the 1-position. The structure is shown as a hydrochloride salt (HCl). <chem>Cl.NCCCCCNS(=O)(=O)C1=CC=CC=C2C=CC=CC=C12</chem>
Molecular Formula	C ₁₆ H ₂₂ N ₂ O ₂ S.HCl
CAS Number	61714-25-8
PubChem identifier	173829
SMILES	Cl.NCCCCCNS(=O)(=O)C1=CC=CC=C2C=CC=CC=C12
InChiKey	HOCSVIGHWPLMFC-UHFFFAOYSA-N

References

Effect of calmodulin antagonists on auxin-induced elongation.

Raghothama KG *et al* (1985) Plant Physiol 79(1)

PubMedID [16664387](#)

W-5 and quin 2-AM reverse the inhibitory effect of insulin on lipolysis due to dibutyl cAMP.

Goko H *et al* (1999) Diabetes Res Clin Pract 44(2)

PubMedID [10414928](#)

N-(6-aminohexyl)-5-chloro-1-naphthalenesulfonamide, a calmodulin antagonist, inhibits cell proliferation.

Hidaka H *et al* (1981) Proc Natl Acad Sci U S A 78(7)

PubMedID

6945588
