

## Certificate of Analysis

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**Product Name:** W-5 hydrochloride

**Catalog No.:** 0368

**Batch No.:** 3

CAS Number: 61714-25-8

IUPAC Name: *N*-(6-Aminohexyl)-1-naphthalenesulfonamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>S.HCl

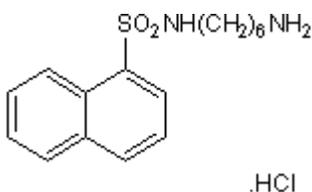
**Batch Molecular Weight:** 342.88

**Physical Appearance:** White solid

**Solubility:** DMSO to 50 mM  
water to 10 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	56.05	6.76	8.17
Found	55.93	6.73	8.26

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Batch No.:** 3

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IUPAC Name: *N*-(6-Aminoethyl)-1-naphthalenesulfonamide hydrochloride

**Description:**

Calmodulin antagonist (inhibits Ca<sup>2+</sup>-calmodulin dependent PDE with an IC<sub>50</sub> of 240 μM).

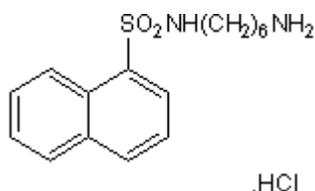
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>16</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>S.HCl

Batch Molecular Weight: 342.88

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 50 mM

water to 10 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Hidaka et al** (1981) Activity-structure relationship of calmodulin antagonists. Naphthalenesulfonamide derivatives. *Mol.Pharmacol.* **20** 571. PMID: 7329399.

**Hidaka et al** (1981) *N*-(6-aminoethyl)-5-chloro-1-naphthalenesulfonamide, a calmodulin antagonist, inhibits cell proliferation. *Proc.Natl.Acad.Sci.U.S.A.* **78** 4354. PMID: 6945588.

**Hidaka and Tanaka** (1983) Naphthalenesulfonamides as calmodulin antagonists. *Methods Enzymol.* **102** 185. PMID: 6139736.

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