

Certificate of Analysis

Product Name: A-3 hydrochloride

Catalog No.: 0366

Batch No.: 2

IUPAC Name: *N*-(2-Aminoethyl)-5-chloro-1-naphthalenesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₃ClN₂O₂S.HCl.H₂O

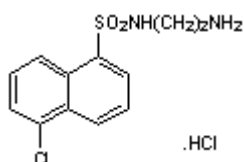
Batch Molecular Weight: 339.24

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 180 - 182°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	42.49	4.75	8.26	0	0
Found	42.49	4.55	8.19	0	0

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

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Description:

Protein kinase inhibitor. K_i values are 4.3, 3.8, 7, 47, 80 and 5.1 μ M for PKA, PKG, MLCK, PKC, casein kinase I and casein kinase II respectively.

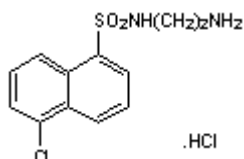
Physical and Chemical Properties:

Batch Molecular Formula: $C_{12}H_{13}ClN_2O_2S \cdot HCl \cdot H_2O$

Batch Molecular Weight: 339.24

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 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 and Tanaka (1983) Naphthalenesulfonamides as calmodulin antagonists. *Methods Enzymol.* **102** 185. PMID: 6139736.

Hidaka and Hagiwara (1987) Pharmacology of the isoquinolinesulfonamide protein kinase C inhibitors. *Trends Pharmacol.Sci.* **8** 162.

Hidaka and Koybashi (1992) Pharmacology of protein kinase inhibitors. *Annu.Rev.Pharmacol.Toxicol.* **32** 377. PMID: 1605572.

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