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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **A-7 hydrochloride** **Catalog No.: 0378** **Batch No.: 1**

CAS Number: 79127-24-5

IUPAC Name: *N*-(10-Aminodecyl)-5-chloro-1-naphthalenesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{29}ClN_2O_2S.HCl$

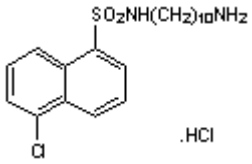
Batch Molecular Weight: 433.44

Physical Appearance: Light yellow crystalline solid

Solubility: DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 190 - 191°C

^{1}H NMR: Consistent with structure

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CAS Number: 79127-24-5

IUPAC Name: *N*-(10-Aminodecyl)-5-chloro-1-naphthalenesulfonamide hydrochloride

Description:

Potent calmodulin antagonist (inhibits calmodulin-activated PDE activity with an IC_{50} of 3 µM).

Physical and Chemical Properties:

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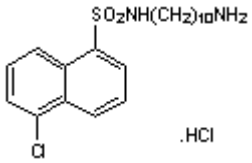

Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 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.

Itoh and Hidaka (1984) Direct interaction of calmodulin antagonists with Ca^{2+}/calmodulin-dependent cyclic nucleotide phosphodiesterase. J.Biochem. ***96*** 1721. PMID: 6099352.

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