

Certificate of Analysis

Print Date: Jan 15th 2016

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Product Name: W-13 hydrochloride Catalog No.: 0361 Batch No.: 1

CAS Number: 88519-57-7

IUPAC Name: N-(4-Aminobutyl)-5-chloro-2-naphthalenesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₇CIN₂O₂S.HCI

Batch Molecular Weight: 349.28 **Physical Appearance:** White solid

Solubility: water to 100 mM

DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

SO_ZNH(CH_Z)₄NH_Z

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2. ANALYTICAL DATA

TLC: $R_f = 0.67$ (Dichloromethane:Methanol:Ammonia soln. [10:1:0.1])

Melting Point:

HPLC:

Shows 98.1% purity

HNMR:

Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 48.14 5.19 8.02 Found 47.77 5.12 7.29



Product Information

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Description:

Calmodulin antagonist (inhibits calmodulin activated PDE activity with an IC₅₀ of 68 µM). Inhibits growth of tamoxifen-resistant breast cancer cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₁₇CIN₂O₂S.HCl

Batch Molecular Weight: 349.28 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

water to 100 mM DMSO 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.

Stroble and Peterson (1992) Tamoxifen-resistant human breast cancer cell growth: inhibition by thionidazine, pimozide and the calmodulin antagonist, W-13. J.Pharmacol.Exp.Ther. 263 186. PMID: 1403784.

Bosch et al (1998) Calmodulin inhibitor W13 induces sustained activation of ERK2 and expression of p21cip1. J.Biol.Chem. 273 22145. PMID: 9705360.

Tel: +44 (0)1235 529449 Tel:+1 612 379 2956