

Product Name: NSC 87877

Catalog No.: 2613

Batch No.: 8

CAS Number: 56990-57-9

IUPAC Name: 8-Hydroxy-7-[(6-sulfo-2-naphthyl)azo]-5-quinolinesulfonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₃N₃O₇S₂·1¾H₂O

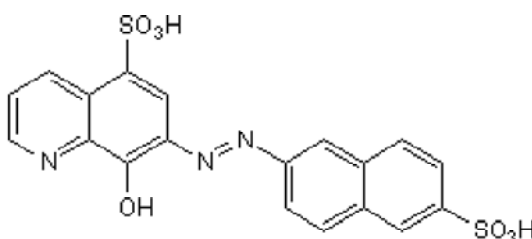
Batch Molecular Weight: 490.97

Physical Appearance: Black solid

Solubility: water to 50 mM
DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	46.48	3.39	8.56
Found	46.64	3.45	8.32

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

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Description:

Potent inhibitor of shp2 and shp1 protein tyrosine phosphatases (PTP) (IC₅₀ values are 0.318, 0.355, 1.691, 7.745, 65.617, 84.473 and 150.930 μM for shp2, shp1, PTP1B, HePTP, DEP1, CD45 and LAR respectively). Inhibits EGF-induced Erk1/2 activation in HEK293 cells and significantly reduces MDA-MB-468 cell viability/proliferation.

Physical and Chemical Properties:

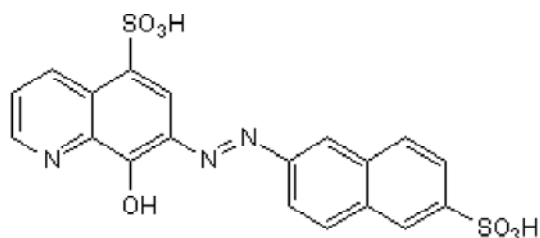
Batch Molecular Formula: C₁₉H₁₃N₃O₇S₂·1¼H₂O

Batch Molecular Weight: 490.97

Physical Appearance: Black solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Redonde et al (2007) hTRPC1-associated α-actinin, and not hTRPC1 itself, is tyrosine phosphorylated during human platelet activation. *J.Thromb.Haemost.* **5** 2476. PMID: 17892531.

Zhao et al (2007) Regulation of ACh receptor clustering by the tyrosine phosphatase Shp2. *Dev.Neurobiol.* **67** 1789. PMID: 17659592.

Chen et al (2006) Discovery of a novel shp2 protein tyrosine phosphatase inhibitor. *Mol.Pharmacol.* **70** 562. PMID: 16717135.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 50 mM

DMSO to 20 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.

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