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: \( \text{C}_{19}\text{H}_{13}\text{N}_{3}\text{O}_{7}\text{S}_{2}\cdot \frac{1}{3}\text{H}_{2}\text{O} \)

   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

   \(^1\)H NMR: Consistent with structure

   Mass Spectrum: Consistent with structure

   Microanalysis:

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>46.48</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.39</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.56</td>
</tr>
</tbody>
</table>

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

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**Product Name:** NSC 87877

**CAS Number:** 56990-57-9

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

**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:** C₇₁H₆₆N₁₈O₁₈S₂.1¾H₂O
- **Batch Molecular Weight:** 490.97
- **Physical Appearance:** Black solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**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.

**References:**