

**Product Name:** Evans Blue tetrasodium salt

**Catalog No.:** 0845

**Batch No.:** 5

CAS Number: 314-13-6

EC Number: 206-242-5

IUPAC Name: 6,6-[(3,3'-Dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[4-amino-5-hydroxy-1,3-naphthalenedisulphonic acid] tetrasodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>14</sub>S<sub>4</sub>

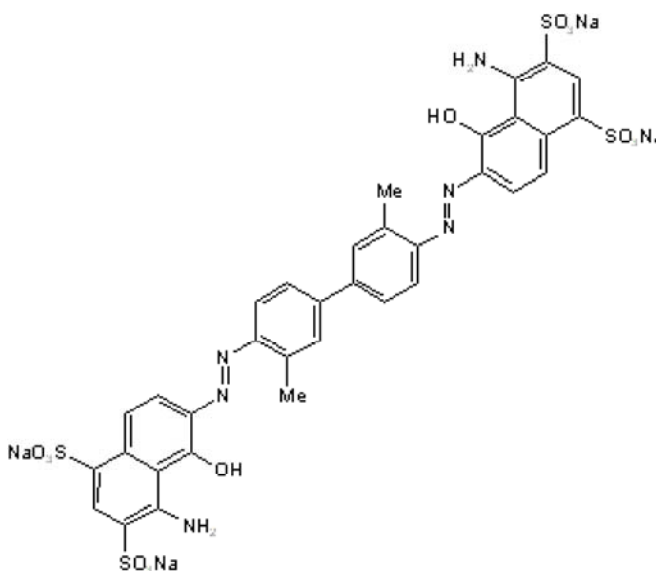
**Batch Molecular Weight:** 960.82

**Physical Appearance:** Black solid

**Solubility:** water to 10 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 92.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

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

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**Description:**

Potent inhibitor of L-glutamate uptake into synaptic vesicles. Also inhibits AMPA and kainate receptor-mediated currents (IC<sub>50</sub> values are 220 and 150 nM respectively). P2X-selective purinoceptor antagonist. Also a non-permeating dye, stains damaged plasma membrane and enters in the cytoplasm and nucleus, used for checking cell viability.

**Physical and Chemical Properties:**

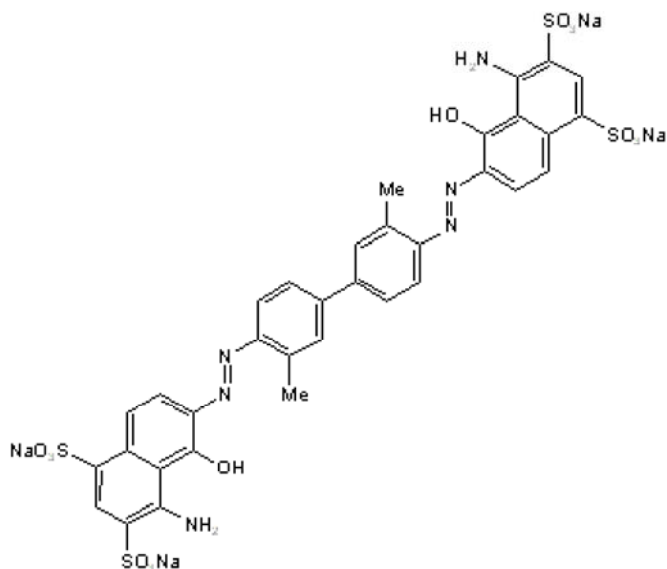
Batch Molecular Formula: C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>14</sub>S<sub>4</sub>

Batch Molecular Weight: 960.82

Physical Appearance: Black solid

**Minimum Purity:** ≥90%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 10 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:**

**Schurmann et al** (1997) Differential modulation of AMPA receptor mediated currents by Evans Blue in postnatal rat hippocampal neurones. *Br.J.Pharmacol.* **121** 237. PMID: 9154333.

**Price and Raymond** (1996) Evans blue antagonizes both α-amino-3-hydroxy-5-methyl-4-isoxazolepropionate and kainate receptors and modulates desensitization. *Mol. Pharmacol.* **50** 1665. PMID: 8967991.

**Wittenburg et al** (1996) P<sub>2</sub>-purinoceptor antagonists:II blockade of P<sub>2</sub>-purinoceptor subtypes and ecto-nucleotidase by compounds related to Evans blue and trypan blue. *Naunyn Schmiedebergs Arch.Pharmacol.* **354** 491. PMID: 8897453.

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