

Product Name: Evans Blue tetrasodium salt

Catalog No.: 0845

Batch No.: 4

CAS Number: 314-13-6

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: $C_{34}H_{24}N_6Na_4O_{14}S_4$

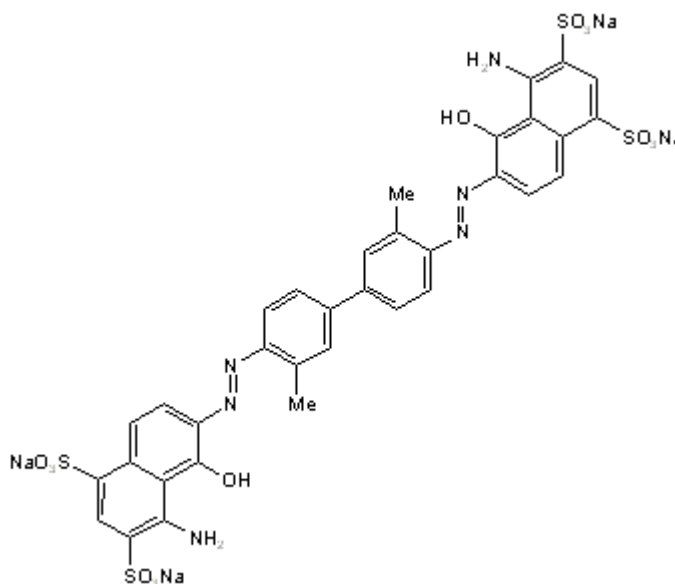
Batch Molecular Weight: 960.82

Physical Appearance: Dark blue solid

Solubility: water to 10 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.4% purity

¹H 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 (IC₅₀ values are 220 and 150 nM respectively). P2X-selective purinoceptor antagonist.

Physical and Chemical Properties:

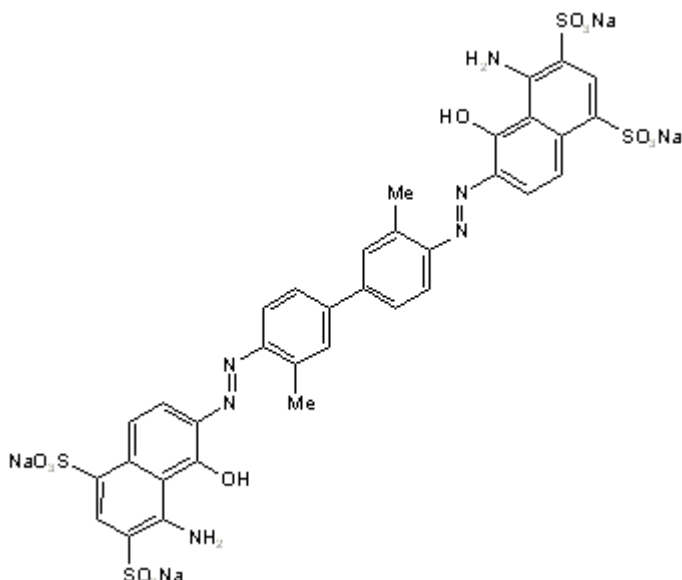
Batch Molecular Formula: C₃₄H₂₄N₆Na₄O₁₄S₄

Batch Molecular Weight: 960.82

Physical Appearance: Dark blue solid

Minimum Purity: >95%

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:

Merck Index **12** 3952.

Roseth et al (1995) Uptake of L-glutamate into rat brain synaptic vesicles: effect of inhibitors that bind specifically to the glutamate transporter. *J. Neurochem.* **65** 96. PMID: 7790899.

Wittenburg et al (1996) P₂-purinoceptor antagonists:II blockade of P₂-purinoceptor subtypes and ecto-nucleotidase by compounds related to Evans blue and trypan blue. *Naunyn Schmiedebergs Arch.Pharmacol.* **354** 491. PMID: 8897453.

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.

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.

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