

Product Name: Chicago Sky Blue 6B

Catalog No.: 0846

Batch No.: 7

CAS Number: 2610-05-1

EC Number: 220-026-8

IUPAC Name: 6,6'-[(3,3-Dimethoxy[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: C₃₄H₂₄N₆Na₄O₁₆S₄

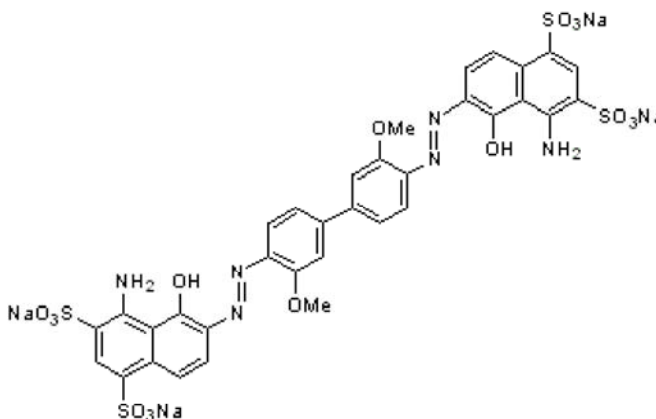
Batch Molecular Weight: 992.79

Physical Appearance: Blue/black solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 79.6% purity

¹H NMR: Consistent with structure

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

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Description:

Chicago Sky Blue 6B is a potent inhibitor of L-glutamate uptake into synaptic vesicles. Allosterically inhibits macrophage migration inhibitory factor (MIF) (IC₅₀ = 0.81 μM); inhibits MIF proinflammatory activity. Also dye used as counterstain in histochemistry.

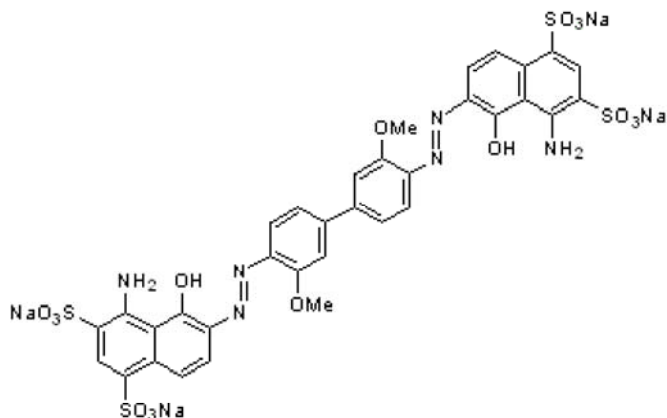
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

This product has a dye content of approximately 50%

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:

Bai et al (2012) A novel allosteric inhibitor of macrophage migration inhibitory factor (MIF). *J.Biol.Chem.* **287** 30653. PMID: 22782901.

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

Fonnum et al (1994) Inhibitors of amino acid uptake into vesicles. *J.Neurochem.* **63** Suppl. 1 S49A.

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