

**Product Name:** Chicago Sky Blue 6B

**Catalog No.:** 0846

**Batch No.:** 5

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:** C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>16</sub>S<sub>4</sub>

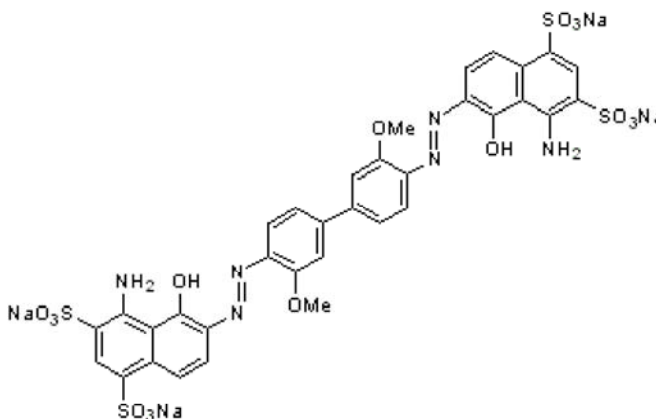
**Batch Molecular Weight:** 992.79

**Physical Appearance:** Brown solid

**Solubility:** water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 88.7% purity

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

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

**Product Name:** Chicago Sky Blue 6B

**Catalog No.:** 0846

**Batch No.:** 5

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

**Description:**

Potent inhibitor of L-glutamate uptake into synaptic vesicles. Allosterically inhibits macrophage migration inhibitory factor (MIF) (IC<sub>50</sub> = 0.81 μM); inhibits MIF proinflammatory activity. Also dye used as counterstain in histochemistry.

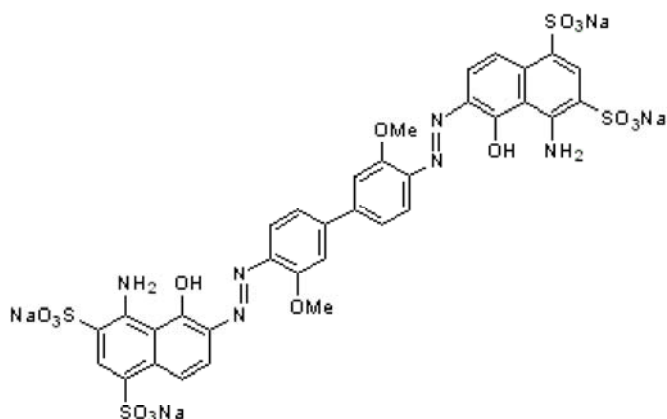
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>16</sub>S<sub>4</sub>

Batch Molecular Weight: 992.79

Physical Appearance: Brown solid

**Batch Molecular Structure:**



**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.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956