

Product Name: Hydroxystilbamidine bis(methanesulfonate)

Catalog No.: 6406

Batch No.: 1

CAS Number: 223769-64-0

IUPAC Name: 4-[2-[4-(Aminoiminomethyl)phenyl]ethenyl]-3-hydroxybenzenecarboximidamide bis(methanesulfonate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆N₄O.2CH₄O₃S

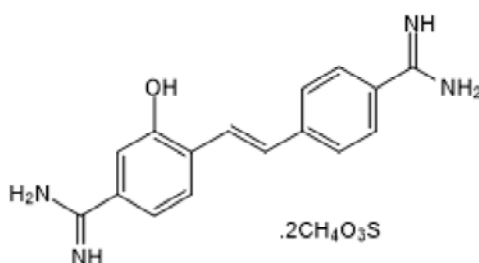
Batch Molecular Weight: 472.54

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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Description:

Fluorescent cationic dye commonly used as a neuronal tracer; exhibits retrograde axonal transport. Displays different fluorescence emission wvelenghts when bound to DNA compared to RNA. Visualize with an ultraviolet excitation filter. Gold color is emitted when tissue is processed with a neutral pH buffer while blue/bright white is emitted when an acidic pH buffer is used.

Physical and Chemical Properties:

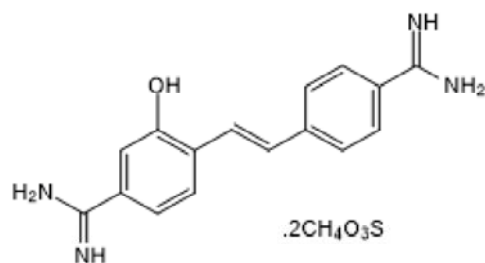
Batch Molecular Formula: C₁₆H₁₆N₄O₂.2CH₄O₃S

Batch Molecular Weight: 472.54

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°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:

DMSO to 50 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:

Chen et al (2012) Motor fiber organization in the extratemporal trunk of the facial nerve in rats: A retrograde Fluoro-Gold study. *Exp. Ther. Med.* **4** 844. PMID: 23226737.

Day et al (2001) A beta-fiber intensity stimulation of chronically constricted median nerve induces c-fos expression in thalamic projection neurons of the cuneate nucleus in rats with behavioral signs of neuropathic pain. *Brain Res.* **895** 194. PMID: 11259778 .

Buys et al (1995) (-)-Deprenyl increases the survival of rat retinal ganglion cells after optic nerve crush. *Curr Eye Res.* **14** 119. PMID: 7768105.

Murgatroyd et al (1982) 2-hydroxystilbamidine isethionate: a new fluorochrome for use in general pathology. I. The selective staining of DNA, mucosubstances and elastic fibres. *Histochemistry* **74** 107. PMID: 6177666.

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