

Product Name: SynaptoRed™ C2

Catalog No.: 5118

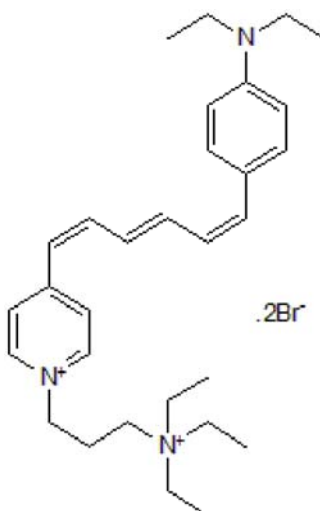
Batch No.: 3

CAS Number: 162112-35-8

IUPAC Name: 4-[6-[4-(Diethylamino)phenyl]-1,3,5-hexatrien-1-yl]-1-[3-(triethylammonio)propyl]pyridinium dibromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₄₅Br₂N₃
Batch Molecular Weight: 607.51
Physical Appearance: Dark purple solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
λ_{max}: 545 nm (methanol)

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

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Description:

Fluorescent dye; stains synaptic vesicles. Becomes fluorescent when incorporated into plasma membrane, used to follow synaptic activity at the synapse or neuromuscular junction. Excitation and emission spectra are ~ 515 and 640 nm respectively.

Physical and Chemical Properties:

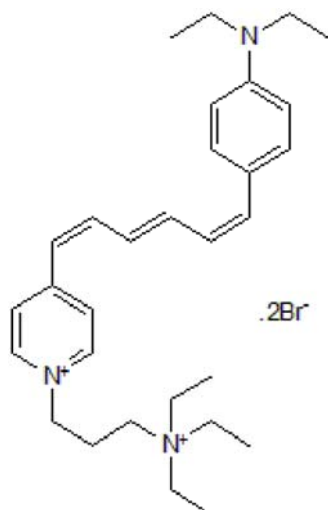
Batch Molecular Formula: C₃₀H₄₅Br₂N₃

Batch Molecular Weight: 607.51

Physical Appearance: Dark purple 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 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.

Licensing Information:

SynptoRed is a trademark of Biotium, Inc.

References:

Daniel et al (2012) Analysis of synaptic vesicle endocytosis in synaptosomes by high-content screening. *Nat.Protoc.* **7** 1439. PMID: 22767087.

Dason et al (2010) Vesicular sterols are essential for synaptic vesicle cycling. *J.Neurosci.* **30** 15856. PMID: 21106824 .

Fischer-Parton et al (2000) Confocal microscopy of FM4-64 as a tool for analysing endocytosis and vesicle trafficking in living fungal hyphae. *J.Microsc.* **198** 246. PMID: 10849201.

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