



Certificate of Analysis

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Product Name: SynaptoRed[™] C2 Catalog No.: 5118 Batch No.: 4

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: $C_{30}H_{45}Br_2N_3$ Batch Molecular Weight: 607.51

Physical Appearance: Dark purple solid
Solubility: water to 10 mg/ml
Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.0 % purity
UV Spectrum: Consistent with structure

 λ_{max} : 545 nm (MeOH)



Product Information

Print Date: Jun 17th 2024

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Description:

Key information: SynaptoRedTM C2 is a fluorescent dye for synaptic vesicles staining. Used for: Suitable for monitoring synaptic activity at the synapse or neuromuscular junctions. Application: fluorescence microscopy. Properties and Photophysical Data: excitation and emission maxima (λ) are 510 nm and 750 nm, respectively.

Physical and Chemical Properties:

 $\label{eq:Batch Molecular Formula: C30H45Br2N3} Batch \ Molecular \ Weight: 607.51$

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.

Catalog No.: 5118

Solubility & Usage Info:

water to 10 mg/ml

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

SynaptoRed 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.

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