



Certificate of Analysis

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Product Name: TFAX 546, SE Catalog No.: 6623 Batch No.: 1

IUPAC Name: 6-[2-Carboxy-3,4,6-trichloro-5-[[2-[[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]amino]-2-oxoethyl]thio]phenyl]

-1,2,3,4,8,9,10,11-octahydro-2,2,4,8,10,10-hexamethyl-12,14-disulfopyrano[3,2-g:5,6-g']diquinolin-13-ium

triethylammonium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₄H₄₇Cl₃N₄O₁₄S.(CH₃CH₂)₃NH

Batch Molecular Weight: 1159.6 **Physical Appearance:** Pink solid

Solubility: Soluble in DMSO
Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 85.8% purity

Mass Spectrum:Consistent with structureUV Spectrum:Consistent with structure λ_{max} :554 nm (pH 7 buffer) λ_{em} :572 nm (pH 7 buffer)

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



Product Information

Print Date: Aug 5th 2019

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Description:

Amine reactive yellow fluorescent dye. Insensitive to pH in the range 4 - 10. Forms bright and photostable conjugates with proteins and antibodies. Suitable for use in microscopy. Excitation maximum = 554 nm; emission maximum = 570 nm; extinction coefficient = 112,000 M⁻¹cm⁻¹; quantum yield = 0.79.

Physical and Chemical Properties:

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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:

Soluble in DMSO

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Hone et al (2010) Alexa Fluor 546-ArlB[V11L;V16A] is a potent ligand for selectively labeling α 7 nicotinic acetylcholine receptors. J.Neurochem. **114** 994. PMID: 20492354.

Iwata et al (2005) Increased susceptibility of cytoplasmic over nuclear polyglutamine aggregates to autophagic degradation. Proc.Natl.Acad.Sci.USA. **102** 13135. PMID: 16141322.

Panchuk-Voloshina *et al* (1999) Alexa dyes, a series of new fluorescent dyes that yield exceptionally bright, photostable conjugates. J.Histochem.Cytochem. **47** 1179. PMID: 10449539.

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