

Product Name: TFX 568, SE

Catalog No.: 6624

Batch No.: 1

CAS Number: 878549-44-1

IUPAC Name: 6-[2-Carboxy-4(5)-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]-1,2,10,11-tetrahydro-2,2,10,10-tetramethyl-4,8-bis(sulfomethyl)pyrano[3,2-g:5,6-g']diquinolin-13-ium inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₃₃N₃O₁₃S₂

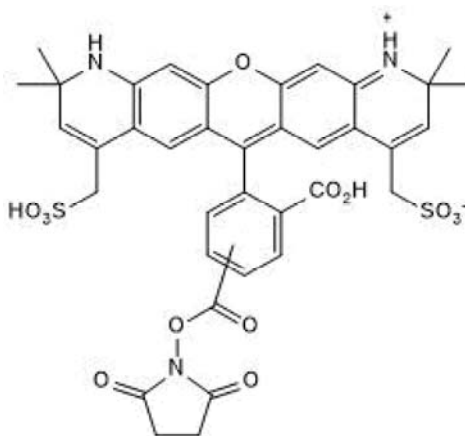
Batch Molecular Weight: 791.8

Physical Appearance: Purple solid

Solubility: Soluble in DMSO

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 86.6% purity

Mass Spectrum: Consistent with structure

λ_{max}: 579 nm (pH 7 buffer)

λ_{em}: 602 nm

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

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Description:

Amine reactive orange fluorescent dye. Insensitive to pH in the range 4 - 10. Forms bright and photostable conjugates with proteins and antibodies. Suitable for use in flow cytometry, 2-photon excitation microscopy, and super resolution microscopy techniques, such as dSTORM. Excitation maximum = 578 nm; emission maximum = 602 nm; quantum yield = 0.69; extinction coefficient = 60720 M⁻¹cm⁻¹.

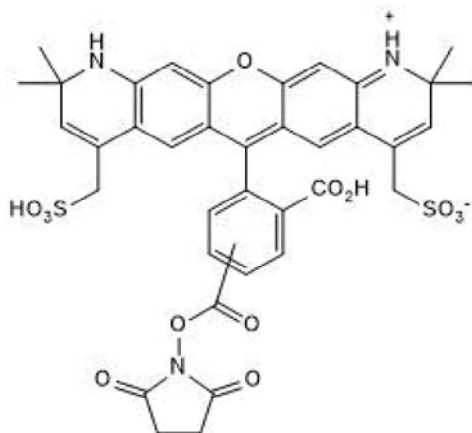
Physical and Chemical Properties:

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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

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:

Rossi et al (2012) Super-resolution imaging of aquaporin-4 orthogonal arrays of particles in cell membranes. *J.Cell Sci.* **125** 4405. PMID: 22718347.

Van de Linde et al (2011) Direct stochastic optical reconstruction microscopy with standard fluorescent probes *Nature Protocols* **6** 991.

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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