

Product Name: TFX 594, SE

Catalog No.: 6625

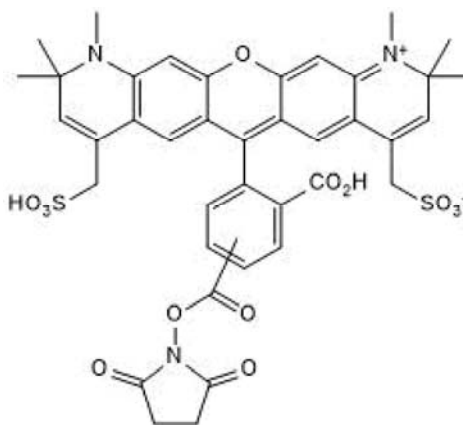
Batch No.: 1

CAS Number: 295348-87-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₃₇N₃O₁₃S₂
Batch Molecular Weight: 819.85
Physical Appearance: Purple solid
Solubility: Soluble in DMSO
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 75.0% purity
Mass Spectrum: Consistent with structure
λ_{max}: 590 nm (pH 7 buffer)
λ_{em}: 618 nm

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

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Description:

Amine reactive red 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/emission maxima ~ 590 / 660 nm; extinction coefficient = 92,000 M⁻¹cm⁻¹; quantum yield = 0.66.

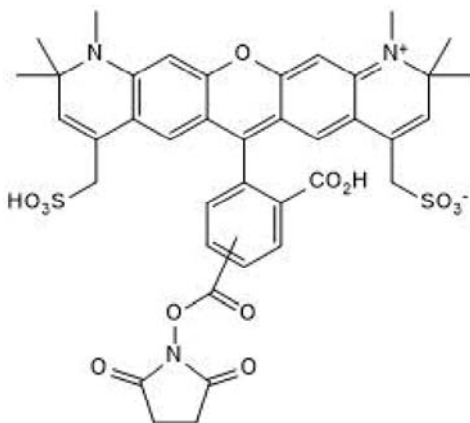
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Storage: Store at -20°C

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:

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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