

Product Name: FITC

Catalog No.: 5440

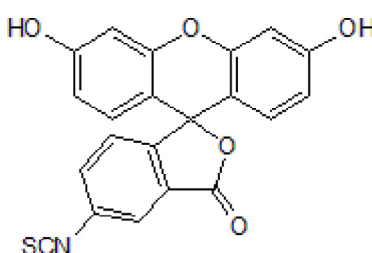
Batch No.: 3

CAS Number: 3326-32-7

IUPAC Name: 3',6'-Dihydroxy-5-isothiocyanatospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₁₁ NO ₅ S
Batch Molecular Weight:	389.38
Physical Appearance:	Dark orange solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.0 % purity at 254 nm
UV Spectrum:	Consistent with structure
λ _{max} :	494 nm (pH 10 Buffer)

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

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Description:

Key information: FITC (an amine-reactive version of the parent dye, fluorescein) is a widely-used green fluorescent dye supplied with an isothiocyanate reactive group for the labeling of primary amines. FITC is bright and has good water-solubility, however it is sensitive to changes in pH and temperature, and has a relatively high photobleaching rate. Application: Suitable for flow cytometry, immunofluorescence (IHC, ICC), fluorescence microscopy, fluorescence in situ hybridization (FISH), biochemical assays. Properties and Photophysical Data: Excitation and emission maxima (λ) are 495 nm and 525 nm, respectively; quantum yield = 0.92;... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

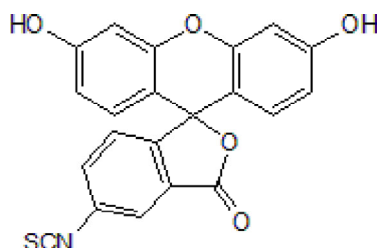
Batch Molecular Formula: C₂₁H₁₁NO₅S

Batch Molecular Weight: 389.38

Physical Appearance: Dark orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Yang *et al* (2014) A novel CXCR4-selective high-affinity fluorescent probe and its application in competitive binding assays. *Biochemistry* **53** 4881. PMID: 25058910.

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 100 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. *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.

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