1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{21}\text{H}_{11}\text{NO}_{5}\text{S} \)
- **Batch Molecular Weight:** 389.38
- **Physical Appearance:** Orange solid
- **Solubility:** DMSO to 100 mM, ethanol to 20 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **HPLC:** Shows 99.1% purity
- **\(^1\text{H NMR:} \)** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **\( \lambda_{\text{max}} \):** 494 nm
Product Name: FITC
Catalog No.: 5440 Batch No.: 1
CAS Number: 3326-32-7
IUPAC Name: 3',6'-Dihydroxy-5-isothiocyanatospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one

Description:
Fluorescent reagent for the labeling of amines. Excitation maximum ~ 495 nm; emission maximum ~ 525 nm.

Physical and Chemical Properties:
- Batch Molecular Formula: C_{21}H_{11}NO_5S
- Batch Molecular Weight: 389.38
- Physical Appearance: Orange solid
- Minimum Purity: >98%

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
- ethanol to 20 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. 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: