

Product Name: Fluorescein Tyramide

Catalog No.: 6456

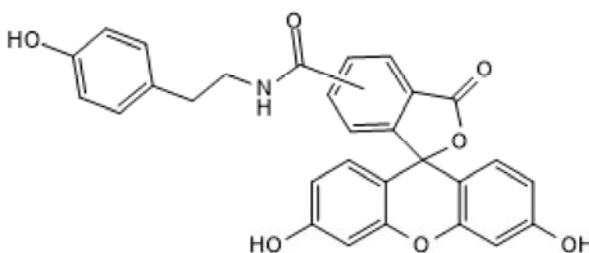
Batch No.: 2

CAS Number: 210236-90-1

IUPAC Name: 3',6'-Dihydroxy-*N*-(4-hydroxyphenylethyl)-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthene]-5(6)-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₁NO₇
Batch Molecular Weight: 495.48
Physical Appearance: Orange solid
Solubility: DMSO to 24 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity at 239 nm
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
UV Spectrum: Consistent with structure
λ_{max}: 495 nm (RPM-00056)
λ_{ex}: 494 nm (RPM-00056)
λ_{em}: 519 nm (RPM-00056)

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

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Description:

Fluorescein Tyramide is a green fluorescent reagent widely used for tyramide signal amplification (TSA) in IHC, ICC, FISH and multicolor FISH. HRP catalyzes localized deposition of multiple tyramide molecules (catalyzed reporter deposition, CARD), binding the fluorescein tyramide to adjacent tyrosines to enhance fluorescent signal.

Physical and Chemical Properties:

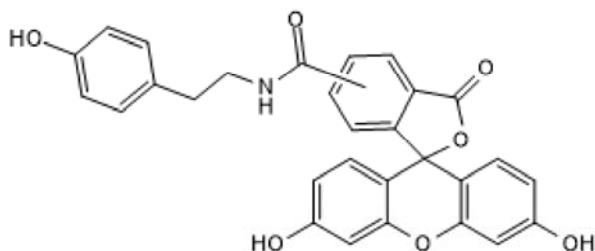
Batch Molecular Formula: C₂₉H₂₁NO₇

Batch Molecular Weight: 495.48

Physical Appearance: Orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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 24 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:

Karkmann et al (1999) Enzymatic signal amplification for sensitive detection of intracellular antigens by flow cytometry. *J.Immunol.Methods* **230** 113. PMID: 10594358.

Schriml et al (1999) Tyramide signal amplification (TSA)-FISH applied to mapping PCR-labeled probes less than 1 kb in size. *Biotechniques* **27** 608. PMID: 10489619.

Hopman et al (1998) Rapid synthesis of biotin-, digoxigenin-, trinitrophenyl-, and fluorochrome-labeled tyramides and their application for *in situ* hybridization using CARD amplification. *J.Histochem.Cytochem.* **46** 771. PMID: 9603790.

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