

Product Name: 5(6)-SFX (Fluorescein), SE

Catalog No.: 6488

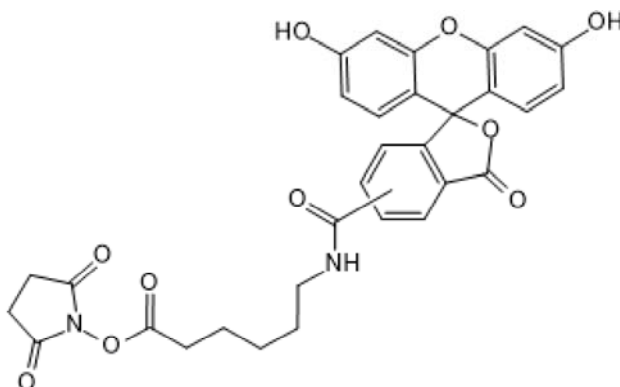
Batch No.: 1

CAS Number: 114616-31-8

IUPAC Name: 6-[Fluorescein-5(6)-carboxamido]hexanoic acid *N*-hydroxysuccinimide ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₂₆ N ₂ O ₁₀
Batch Molecular Weight:	586.55
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM DMF to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 92.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ_{max}:	494 nm (50mM potassium phosphate buffer (pH 9))
λ_{ex}:	494 nm (50mM potassium phosphate buffer (pH 9))
λ_{em}:	517 nm (50mM potassium phosphate buffer (pH 9))

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

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IUPAC Name: 6-[Fluorescein-5(6)-carboxamido]hexanoic acid *N*-hydroxysuccinimide ester

Description:

5(6)-SFX (Fluorescein), SE is a green fluorescent dye for the labeling of primary amines. Comprising fluorescein, with a commonly used fluorophore, the hexanoic spacer that separates the fluorophore from the molecule to which it is conjugated and makes the NHS ester group more accessible to biopolymers for conjugation. Excitation maximum = 494 nm; emission maximum = 520 nm, extinction coefficient: 74,000 cm⁻¹M⁻¹.

Physical and Chemical Properties:

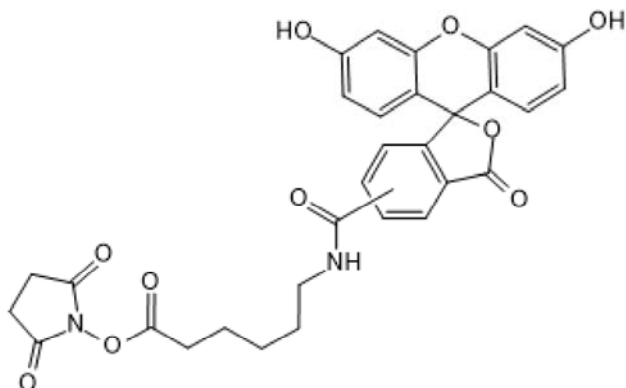
Batch Molecular Formula: C₃₁H₂₆N₂O₁₀

Batch Molecular Weight: 586.55

Physical Appearance: Yellow solid

Minimum Purity: ≥90%

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 100 mM

DMF 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. 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:

Ito *et al* (2015) Artificial human Met agonists based on macrocycle scaffolds. *Nat. Commun.* **6** 6373. PMID: 25758345 .

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