

Product Name: Ocean Blue, SE

Catalog No.: 6489

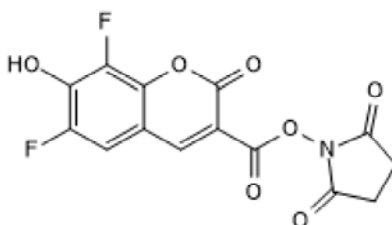
Batch No.: 1

CAS Number: 215868-33-0

IUPAC Name: 3-Carboxy-6,8-difluoro-7-hydroxycoumaryl succinimidyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₇F₂NO₇
Batch Molecular Weight: 339.2
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
λ_{max}: 419 nm (buffer pH 8)
λ_{em}: 452 nm (buffer pH 8)

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

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Description:

Blue fluorescent dye. Conjugates of this dye are strongly fluorescent even at neutral pH. Excitation maximum = 405 nm; emission maximum = 455 nm; extinction coefficient = 36000 M⁻¹cm⁻¹; correction factor A280 = 0.15.

Physical and Chemical Properties:

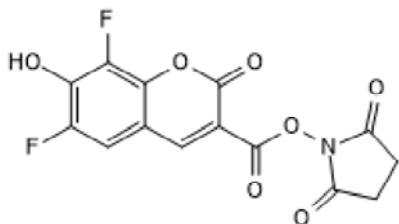
Batch Molecular Formula: C₁₄H₇F₂NO₇

Batch Molecular Weight: 339.2

Physical Appearance: Yellow 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 10 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:

Cox et al (2004) Fluorescent DNA hybridization probe preparation using amine modification and reactive dye coupling. *Biotechniques* **36** 114. PMID: 14740493.

Haugland et al (2001) Antibody conjugates for cell biology. *Curr.Protoc.Cell Biol.* PMID: 18228336.

Brandtzaeg et al (1998) The increasing power of immunohistochemistry and immunocytochemistry. *J.Immunol.Methods* **216** 49. PMID: 9760215.

Sun et al (1998) Synthesis of novel fluorinated coumarins: excellent UV-light excitable fluorescent dyes. *Bioorg.Med.Chem.Lett.* **8** 3107. PMID: 9873685.

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