

Certificate of Analysis

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Product Name: Ocean Blue, SE

Catalog No.: 6489

Batch No.: 3

CAS Number: 215868-33-0

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

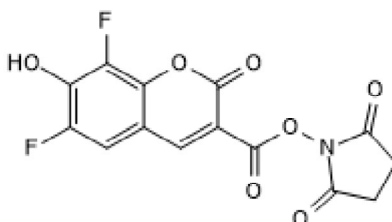
1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₇F₂NO₇

Batch Molecular Weight: 339.2

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.0% purity at 254 nm

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:

Key information: Ocean Blue, SE is a blue fluorescent dye supplied with an NHS ester reactive group for the labeling of primary amines. Application: Flow cytometry, fluorescence microscopy. Properties and Photophysical Data: Conjugates of this dye are strongly fluorescent even at neutral pH. Excitation and emission maxima (λ) are 405 nM and 455 nM, respectively; quantum yield = 0.78; extinction coefficient = 36,000 M⁻¹cm⁻¹; A280 correction factor = 0.15. Please see the protocol for further information on protein/antibody labeling and conjugation. Note: This product is typically prepared in DMSO. Please see product specific page on www.tocris.com for full description.

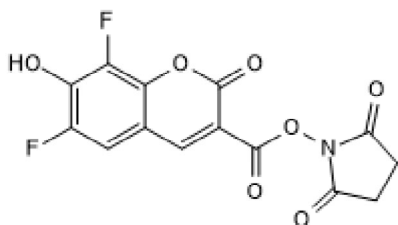
Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₇F₂NO₇

Batch Molecular Weight: 339.2

Minimum Purity: ≥95%

Batch Molecular Structure:



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.

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.

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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