

**Product Name:** Ocean Blue, SE

**Catalog No.:** 6489

**Batch No.:** 2

CAS Number: 215868-33-0

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

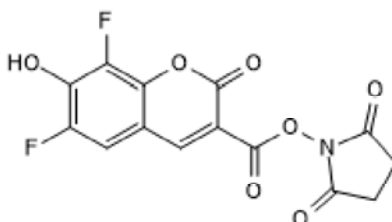
**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>7</sub>F<sub>2</sub>NO<sub>7</sub>

**Batch Molecular Weight:** 339.2

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 96.0% purity at 254 nm

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 419 nm (Buffer pH8)

**λ<sub>em</sub>:** 452 nm (Buffer pH8)

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

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**Description:**

Ocean Blue, SE is a 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<sup>-1</sup>cm<sup>-1</sup>; correction factor A280 = 0.15. Please see the protocol for further information on protein/antibody labeling and conjugation. Note: This product is typically prepared in DMSO.

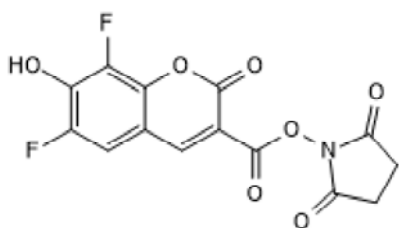
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>14</sub>H<sub>7</sub>F<sub>2</sub>NO<sub>7</sub>

Batch Molecular Weight: 339.2

**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.

**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.

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