

**Product Name:** SCOTfluor 510 Fmoc-Dapa-OH

**Catalog No.:** 7900

**Batch No.:** 1

CAS Number: 3023933-33-4

IUPAC Name: (S)-2-((((9H-Fluoren-9-yl)methoxy)carbonyl)amino)-3-((7-nitrobenzo[c][1,2,5]selenadiazol-4-yl)amino) propanoic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

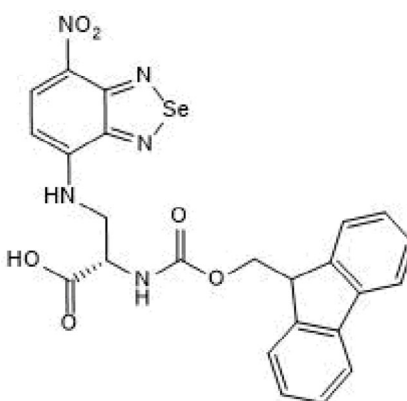
**Batch Molecular Formula:** C<sub>24</sub>H<sub>19</sub>N<sub>5</sub>O<sub>6</sub>Se

**Batch Molecular Weight:** 552.41

**Physical Appearance:** Red solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 96.1% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

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

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**Description:**

SCOTfluor 510 Fmoc-Dapa-OH is a Fmoc protected fluorescent amino acid. Used as a building block in solid-phase peptide synthesis to prepare PAINT imaging probes. Application: use in solid-phase peptide synthesis (SPPS) for PAINT imaging. Properties and Photophysical Data: excitation and emission maxima (λ) are 488 nm and 601 nm, respectively; quantum yield = 0.19; extinction coefficient = 4,480 M<sup>-1</sup>cm<sup>-1</sup>.

**Physical and Chemical Properties:**

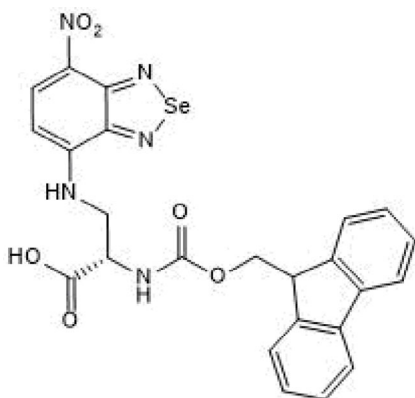
Batch Molecular Formula: C<sub>24</sub>H<sub>19</sub>N<sub>5</sub>O<sub>6</sub>Se

Batch Molecular Weight: 552.41

Physical Appearance: Red 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.

**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.

**Licensing Information:**

Sold under license from the University of Edinburgh

**References:**

de Moliner *et al* (2023) Small fluorogenic amino acids for peptide-guided background-free imaging. *Angew.Chem.Int.Ed.Engl.* **62** e202216231. PMID: 36412996.

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