

Product Name: **BDY FL, SE**

Catalog No.: **5465**

Batch No.: **4**

CAS Number: 146616-66-2

IUPAC Name: (T-4)-[1-[3-[5-[(3,5-Dimethyl-2H-pyrrol-2-ylidene-κN)methyl]-1H-pyrrol-2-yl-κN]-1-oxopropoxy]-2,5-pyrrolidinedionato]difluoroboron

1. PHYSICAL AND CHEMICAL PROPERTIES

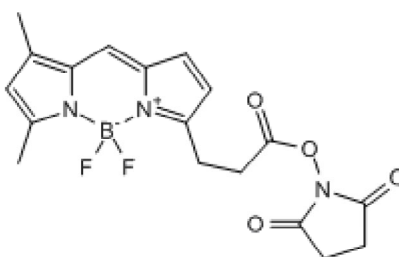
Batch Molecular Formula: C₁₈H₁₈BF₂N₃O₄

Batch Molecular Weight: 389.16

Physical Appearance: Orange solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

λ_{max}: 503 nm (Methanol)

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

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Description:

Key information: BDY FL, SE is a fluorescent green BDY (BODIPY® or boron-dipyromethene) dye supplied with an NHS ester reactive group for the labeling of primary amines. The hydrophobic nature of BDY FL makes it ideal for labeling lipids and cell membranes. Application: BDY FL, SE exhibits a narrow emission bandwidth and has a relatively long excited-state lifetime, making it ideal for fluorescence polarization assays and two-photon excitation (TPE) microscopy. Properties and Photophysical Data: Displays high fluorescence quantum yield and high extinction coefficient and is relatively insensitive to pH change. This dye contains a C3 alkyl... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

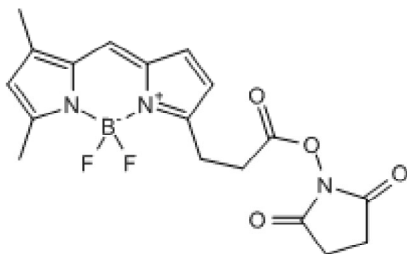
Batch Molecular Formula: C₁₈H₁₈BF₂N₃O₄

Batch Molecular Weight: 389.16

Physical Appearance: Orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Kubohara et al (2013) Mitochondria are the target organelle of differentiation-inducing factor-3, an anti-tumor agent isolated from *Dictyostelium discoideum*. PLoS ONE **8** e72118. PMID: 23977224.

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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