

Product Name: BDY FL, SE

Catalog No.: 5465

Batch No.: 5

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

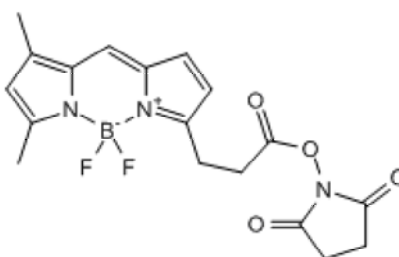
Batch Molecular Formula: C₁₈H₁₈BF₂N₃O₄

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 at 503 nm

UV Spectrum: Consistent with structure

λ_{max}: 503 nm (MeOH)

λ_{em}: 510 nm (MeOH)

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

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Description:

BDY FL, SE is a fluorescent green BDY (BODIPY® or boron-dipyrromethene) dye for the labeling of amines. Exhibits similar excitation and emission spectra to dyes TFA 488 and FITC. Displays high fluorescence quantum yield and high extinction coefficient and is relatively insensitive to pH change. This dye contains a C3 alkyl spacer between the fluorophore and the NHS ester group, reducing the potential for interactions between fluorophore and conjugated biomolecule. The hydrophobic nature of BDY FL makes it ideal for labeling lipids and cell membranes. BDY FL also exhibits narrow emission bandwidths and has a relatively long excited-state ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

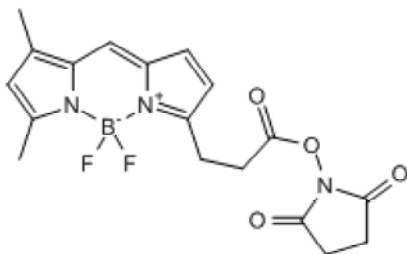
Batch Molecular Formula: C₁₈H₁₈BF₂N₃O₄

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. 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.

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