

Certificate of Analysis

www.tocris.com

Product Name: BDY 650-X, SE

Catalog No.: 5469

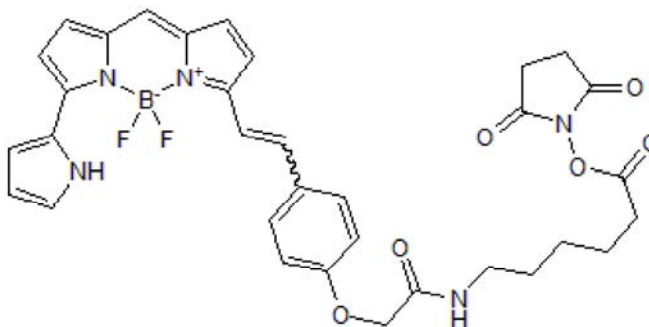
Batch No.: 1

CAS Number: 235439-04-0

IUPAC Name: (T-4)-[2-[4-[2-[2-[[[2,2'-Bi-1*H*-pyrrol]-5-yl-κ*N*(1)methylene]-2*H*-pyrrol-5-yl-κ*N*]ethenyl]phenoxy]-*N*-[6-[(2,5-dioxo-1-pyrrolidinyloxy]-6-oxohexyl]acetamidato]difluoroboron

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₃ H ₃₂ BF ₂ N ₅ O ₆
Batch Molecular Weight:	643.44
Physical Appearance:	Blue solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 96% purity
Mass Spectrum:	Consistent with structure
λ_{max}:	646 nm (Methanol)

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: BDY 650-X, SE

Catalog No.: 5469

Batch No.: 1

CAS Number: 235439-04-0

IUPAC Name: (7-4)-[2-[4-[2-[2-[[[2,2'-Bi-1*H*-pyrrol]-5-yl-κ*N*1)methylene]-2*H*-pyrrol-5-yl-κ*N*]ethenyl]phenoxy]-*N*-[6-[(2,5-dioxo-1-pyrrolidinyloxy]-6-oxohexyl]acetamidato]difluoroboron

Description:

BDY 650-X, SE is a fluorescent far-red BDY (BODIPY® or boron-dipyrromethene) dye for the labeling of amines. Displays high fluorescence quantum yield and high extinction coefficient and is relatively insensitive to pH change. This dye contains a seven-atom aminohexanoyl ("X") spacer between the fluorophore and the NHS ester group, reducing the potential for interactions between the fluorophore and conjugated biomolecule. The hydrophobic nature of BDY 650-X makes it ideal for labeling lipids and cell membranes. BDY 650-X also exhibits narrow emission bandwidths and has a relatively long excited-state lifetime, making it ideal for... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

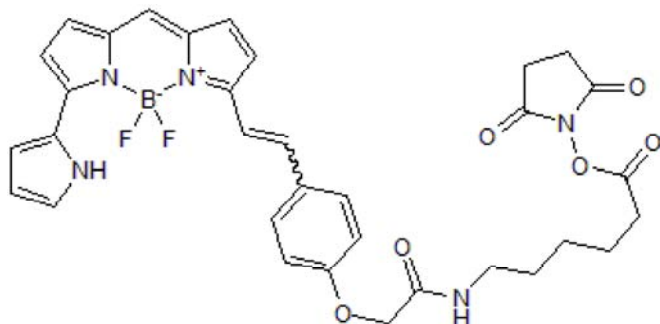
Batch Molecular Formula: C₃₃H₃₂BF₂N₅O₆

Batch Molecular Weight: 643.44

Physical Appearance: Blue solid

Minimum Purity: ≥90%

Batch Molecular Structure:



References:

Yang *et al* (2013) A dendritic single-molecule fluorescent probe that is monovalent, photostable and minimally blinking. *Nat.Chem.* **5** 692. PMID: 23881501.

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.

Solubility & Usage Info:

DMSO to 100 mM

This product is predominantly the E isomer with <10% Z isomer present. The quoted purity is for the sum of both isomers.

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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