

Product Name: BDY TMR-X, SE

Catalog No.: 5466

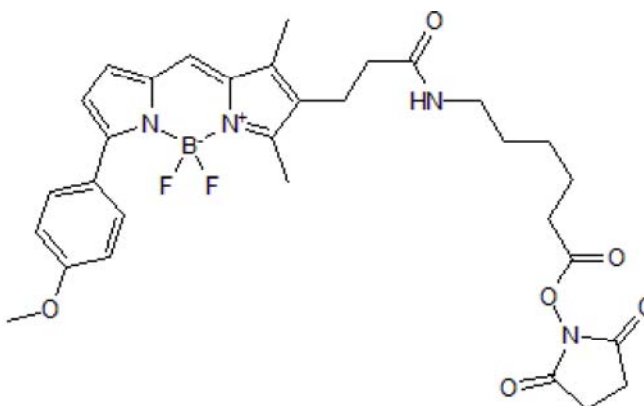
Batch No.: 1

CAS Number: 217190-15-3

IUPAC Name: (T-4)-[N-[6-[(2,5-Dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-5-[[5-(4-methoxyphenyl)-2H-pyrrol-2-ylidene-κN]methyl]-2,4-dimethyl-1H-pyrrole-3-propanamidato-κN1]difluoroboron

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₃₅ BF ₂ N ₄ O ₆
Batch Molecular Weight:	608.44
Physical Appearance:	Red/purple solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100% purity
Mass Spectrum:	Consistent with structure
λ_{max}:	544 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

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Description:

Fluorescent yellow BDY (BODIPY® or boron-dipyrromethene) dye for the labeling of amines. Exhibits similar excitation and emission spectra to dye TRITC. 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 TMR-X makes it ideal for labeling lipids and cell membranes. BDY TMR-X also exhibits narrow emission bandwidths and has a relatively long ... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

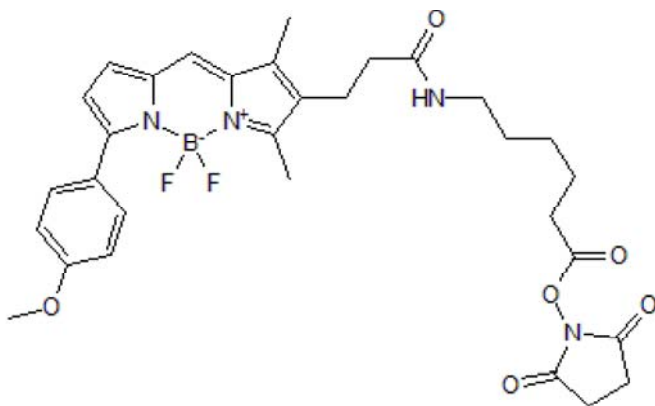
Batch Molecular Formula: C₃₁H₃₅BF₂N₄O₆

Batch Molecular Weight: 608.44

Physical Appearance: Red/purple 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.

Solubility & Usage Info:

DMSO to 100 mM

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:

Clardy *et al* (2014) Fluorescent exendin-4 derivatives for pancreatic β-cell analysis. *Bioconjug.Chem.* **25** 171. PMID: 24328216.

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