# MCE MedChemExpress

## **Product** Data Sheet

## BODIPY-581/591 NHS ester

Cat. No.: HY-D1691 
CAS No.: 150152-70-8 
Molecular Formula:  $C_{26}H_{22}BF_2N_3O_4$ 

Molecular Weight: 489.28

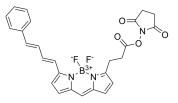
Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, sealed storage, away from moisture and light

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)



#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 25 mg/mL (51.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0438 mL	10.2191 mL	20.4382 mL
	5 mM	0.4088 mL	2.0438 mL	4.0876 mL
	10 mM	0.2044 mL	1.0219 mL	2.0438 mL

Please refer to the solubility information to select the appropriate solvent.  $\label{eq:continuous}$ 

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (2.55 mM); Suspended solution; Need ultrasonic

#### **BIOLOGICAL ACTIVITY**

Description

BODIPY-581/591 NHS ester is a bright, red fluorescent dye (excitation: 581 nm; emission: 591 nm). BODIPY-581/591 NHS ester shows unique hydrophobic properties for staining lipids, membranes, and other lipophilic compounds<sup>[1]</sup>.

### **CUSTOMER VALIDATION**

• Int J Biol Macromol. 2023 Mar 10;236:123998.

See more customer validations on  $\underline{www.MedChemExpress.com}$ 

#### **REFERENCES**

All Darks Getilder and Anaryang the surface of functional nanometeries how to quantify the total and derivatizable number of functional gross and ligands. Mileochin co. 2021 Sep. 4.1891(0) \$21.  Caution: Product has not been fully validated for medical applications. For research use only.  Tel: 509-228-6989 Fax: 509-228-6999 E-mail: techig Med ChemExpress.com  Address: 1 Deer Park Dr., Suike Q., Monmouth Junction, NJ 08857, USA					
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com	1]. Daniel Geißler, et al. Analyz Acta. 2021 Sep 4;188(10):321.	zing the surface of functiona	l nanomaterials-how to quantify t	he total and derivatizable number of function	onal groups and ligands. Mikrochim
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