

# Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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# Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

# SZABO-SCANDIC HandelsgmbH

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# BODIPY 581/591 C11

MedChemExpress

Cat. No.:	HY-D1301
CAS No.:	217075-36-0
Molecular Formula:	$C_{30}H_{35}BF_{2}N_{2}O_{2}$
Molecular Weight:	504.42
Target:	Ferroptosis; Fluorescent Dye
Pathway:	Apoptosis; Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Sol	Preparing Stock Solutions	1 mM	1.9825 mL	9.9124 mL	19.8247 mL
		5 mM	0.3965 mL	1.9825 mL	3.9649 mL
		10 mM	0.1982 mL	0.9912 mL	1.9825 mL

BIOLOGICAL ACTIVITY		
Description	BODIPY 581/591 C11 is a BODIPY borofluoroprene derivative with good light stability and low fluorescence artifacts. BODIPY 581/591 C11 can be used for study lipid peroxidation and antioxidant properties in living cells, or detect ferroptosis by reaction with hydroxyl radicals. BODIPY 581/591 C11 is emitted at 591 nm (reduced prototype), or redshifted to 510 nm (oxidized type). The excitation wavelengths were 581 nm (reduced prototype) and 500 nm (oxidized type) <sup>[1]</sup> .	
In Vitro	Preparation of the stock solution Dissolve 1mg BODIPY 581/591 C11 in 0.1983 mL DMSO to obtain 10 mM of BODIPY 581/591 C11. Note: It is recommended to store the stock solution at -20°C -80°C away from light and avoid repetitive freeze-thaw cycles. 1.2 Preparation of BODIPY 581/591 C11 working solution Dilute the stock solution in serum-free cell culture medium or PBS to obtain 2-10 μM of BODIPY 581/591 C11 working solution. Note: Please adjust the concentration of BODIPY 581/591 C11 working solution according to the actual situation. Cell staining 2.1 Cell preparation: For suspension cells: Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time.	

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# Product Data Sheet

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For adherent cells: Discard the cell culture medium, and add trypsin to dissociate cells to make a single-cell suspension. Centrifuge at 1000 g at 4°C for 3-5 minutes and then discard the supernatant. Wash twice with PBS, 5 minutes each time. 2.2 Add 1 mL of BODIPY 581/591 C11 working solution, and then incubate at room temperature for 30 minutes. 2.3 Centrifuge at 400 g at 4°C for 3-4 minutes and then discard the supernatant.

2.4 Wash twice with PBS, 5 minutes each time.

2.5 Resuspend cells with serum-free cell culture medium or PBS, and then detect by fluorescence microscope or flow cytometer.

### Precautions

- 1. It is recommended to store the stock solution at -200 or -800 away from light and avoid repetitive freeze-thaw cycles.
- 2. Please adjust the concentration of BODIPY 581/591 C11 working solution according to the actual situation.
- 3. This product is for R&D use only, not for drug, household, or other uses.
- 4. For your safety and health, please wear a lab coat and disposable gloves to operate.
- MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### **CUSTOMER VALIDATION**

- Signal Transduct Target Ther. 2023 Aug 16;8(1):302.
- Adv Mater. 2023 Sep 5;e2306469.
- Drug Resist Updat. 2023 Jan.
- Sci Bull. 2022 Dec 30;S2095-9273(22)00609-0.
- ACS Nano. 2023 Feb 10.

See more customer validations on www.MedChemExpress.com

### REFERENCES

[1]. Gregor P C Drummen, et al. C11-BODIPY(581/591), an oxidation-sensitive fluorescent lipid peroxidation probe: (micro)spectroscopic characterization and validation of methodology. Free Radic Biol Med. 2002 Aug 15;33(4):473-90.

Caution: Product has not been fully validated for medical applications. For research use only.

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