

## BODIPY 581/591 NHS Ester (Succinimidyl Ester)

Catalog Number	Packaging Size
C187	5 mg

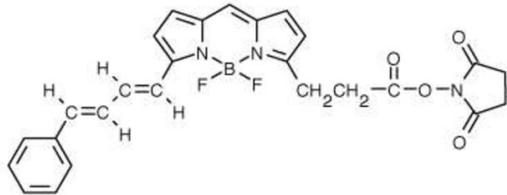
**Storage upon receipt:** -20°C, protect from light

### Introduction

BODIPY 581/591 dye is bright, red fluorescent dye with similar excitation and emission to Rhodamine Red™ and Alexa Fluor™ 568 dye. It has a high extinction coefficient and fluorescence quantum yield and is relatively insensitive to solvent polarity and pH change. BODIPY 558/568 dye has a relatively long excited-state lifetime (typically 5 nanoseconds or longer), which is useful for fluorescence polarization-based assays and a large two-photon cross-section for multiphoton excitation. BODIPY dyes have unique hydrophobic properties ideal for staining lipids, membranes, and other lipophilic compounds.

The NHS ester (or succinimidyl ester) of BODIPY 581/591 is the most popular tool for conjugating the dye to a protein or antibody. NHS esters can be used to label the primary amines (R-NH<sub>2</sub>) of proteins, amine-modified oligonucleotides, and other amine-containing molecules. The resulting BODIPY 581/591 conjugates exhibit bright fluorescence, narrow emission bandwidths, and relatively long excited-state lifetimes, which can be useful for fluorescence polarization assays and two-photon excitation (TPE) microscopy.

### Specifications

<b>Label:</b>	BODIPY 581/591	
<b>Ex/Em:</b>	581/591 nm	
<b>Detection Method:</b>	Fluorescent	
<b>Solubility:</b>	DMSO, DMF	
<b>Chemical Reactivity:</b>	Amine	
<b>Molecular Weight:</b>	489.28	
<b>Quantity:</b>	5 mg	
<b>Storage Conditions:</b>	-20°C, protect from light	
<b>Shipping Condition:</b>	Room Temperature	

### Applications

Fluorescent labeling