

BODIPY 558/568 NHS Ester (Succinimidyl Ester)

Catalog Number	Packaging Size
C185	5 mg

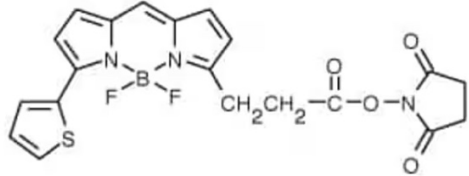
Storage upon receipt: -20°C, protect from light

Introduction

BODIPY 558/568 dye is bright, red fluorescent 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 558/568 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-NH₂) of proteins, amine-modified oligonucleotides, and other amine-containing molecules. The resulting BODIPY 558/568 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

Label:	BODIPY 558/568	
Ex/Em:	559/568 nm	
Detection Method:	Fluorescent	
Solubility:	DMSO, DMF	
Chemical Reactivity:	Amine	
Molecular Weight:	443.23	
Quantity:	5 mg	
Storage Conditions:	-20°C, protect from light	
Shipping Condition:	Room Temperature	

Applications

Fluorescent labeling