

BODIPY TR NHS Ester (Succinimidyl Ester)

Catalog Number	Packaging Size
C188	5 mg

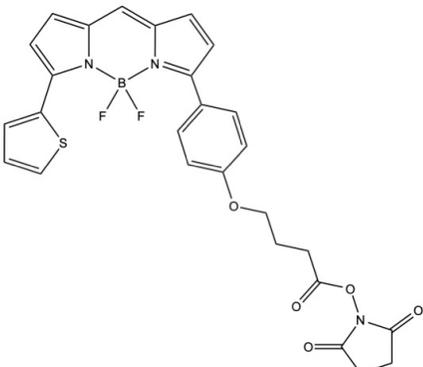
Storage upon receipt: -20°C, protect from light

Introduction

BODIPY TR dye is bright, red fluorescent dye with similar excitation and emission to Texas Red™ or Alexa Fluor™ 594 dye. It has a high extinction coefficient and fluorescence quantum yield and is relatively insensitive to solvent polarity and pH change. BODIPY TR 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 TR 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 TR 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 TR	
Ex/Em:	588/616 nm	
Detection Method:	Fluorescent	
Solubility:	DMSO, DMF	
Chemical Reactivity:	Amine	
Molecular Weight:	549.36	
Quantity:	5 mg	
Storage Conditions:	-20°C, protect from light	
Shipping Condition:	Room Temperature	

Applications

Fluorescent labeling