

BODIPY FL NHS Ester (Succinimidyl Ester)

Catalog Number	Packaging Size
C184	5 mg

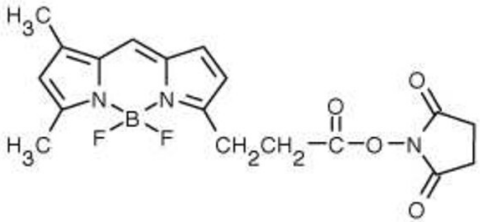
Storage upon receipt: -20°C, protect from light

Introduction

BODIPY FL dye is bright, green fluorescent dye with similar excitation and emission to fluorescein (FITC) or Alexa Fluor™ 488 dye. It has a high extinction coefficient and fluorescence quantum yield and is relatively insensitive to solvent polarity and pH change. BODIPY FL 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 FL 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 FL 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 FL	
Ex/Em:	502/510 nm	
Detection Method:	Fluorescent	
Solubility:	DMSO, DMF	
Chemical Reactivity:	Amine	
Molecular Weight:	389.16	
Quantity:	5 mg	
Storage Conditions:	-20°C, protect from light	
Shipping Condition:	Room Temperature	

Applications

Fluorescent labeling