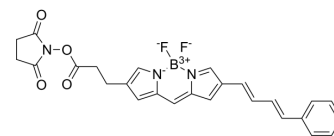


## BDP 581/591 NHS ester

Cat. No.:	HY-D1653
CAS No.:	654651-21-5
Molecular Formula:	C <sub>26</sub> H <sub>22</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	489.28
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMF : 50 mg/mL (102.19 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0438 mL	10.2191 mL	20.4382 mL
	5 mM	0.4088 mL	2.0438 mL	4.0876 mL
	10 mM	0.2044 mL	1.0219 mL	2.0438 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

BDP 581/591 NHS ester is a borondipyromethene dye (Ex=585 nm, Em=594 nm) that has relatively long fluorescence lifetime and two photon excitation cross section. BDP 581/591 NHS ester can be used for fluorescence polarization analysis and also reacts with reactive oxygen species (ROS) and alter fluorescence. BDP 581/591 NHS ester is also an NHS ester derivative that can be used to bind primary and secondary amine groups of proteins, peptides and other molecules.

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

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