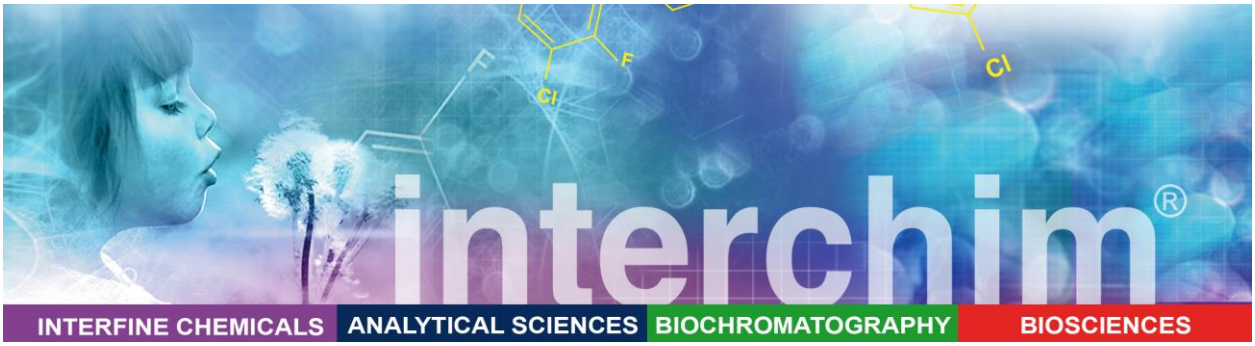
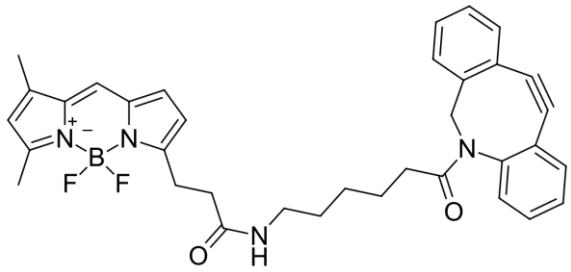
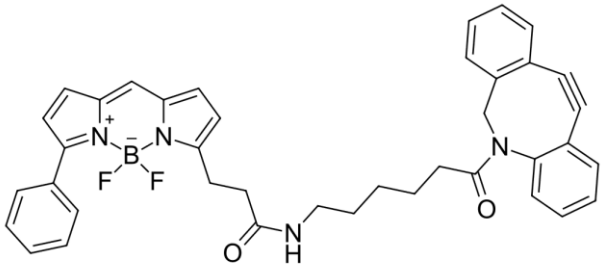
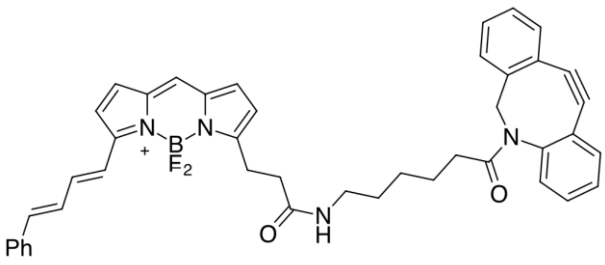
FT-B35T42



BrDIPY - DBCO

Borondipyrromethene activated dyes for fluorescent labeling of biomolecules by click chemistry
BrDIPY

Boron**diPy**rromethene dyes (BrDIPY, BDP) have small stockes shift, environment-independent high quantum yields, brightness thanks to sharp excitation and emission peaks, and high solubility in organic solvents. These dyes lack of ionic charge resulting in minimal effect on the isoelectric point of the conjugate. The small size and relatively long excited-state lifetime are useful for fluorescence polarization-based assays, notably for studying ligand-receptor interactions. The large two-photon cross-section is perfect for multiphoton excitation.
The fluorescent dyes - DBCO (azodibenzocyclooctyne) conjugates can be conjugated with azides by copper free Click chemistry reaction, yielding stable triazole conjugates.

Product name cat.number/qty 2-1mg, 5-5mg, 1-10mg, 4-50mg, 0-100mg	**MW** g·mol^{-1} **(+added MW)**	**λ abs./em.** nm	**mol. abs.** M^{-1}cm^{-1}	Comment, structure
BrDIPY FL – DBCO FP-B35T42, 1mg (M) Apparence: orange solid Soluble in DMF, DMSO, DCM	592.49 (592.3)	503/509	80 000 QY:0.97 CF_{260}:0.015 CF_{280}:0.027	
BrDIPY R6G – DBCO FP-B35T52, 1mg (M) Apparence: red to brown solid Soluble in DMF, DMSO, DCM	640.53 (640.3)	530/548	QY:0.19 CF_{260}:0.17 CF_{280}:0.18	
BrDIPY 581/591 – DBCO FP-B35T72, 1mg (M) Apparence: dark purple solid Soluble in DMF, DMSO, DCM	692.60 (692.3)	585/594	104 000 QY:0.83 CF_{260}:0.06 CF_{280}:0.04	

Storage: –20°C, protected from light. Avoid prolonged exposure to light. Desiccate.
Stable for 12 months at -20°C in the dark, and +1 week at room temperature.

BrDIPY FL DBCO is a photostable borondipyrromethene for FAM (fluorescein) channel. Absorption and emission wavelengths of BrDIPY FL are compatible with light sources and filter sets for fluorescein (FAM), but BrDIPY FL is significantly more photostable.

BrDIPY R6G is a bright and photostable substitute for Rhodamine 6G (R6G). BrDIPY stands for borondipyrromethene, a versatile fluorophore scaffold that is specially tuned in this molecule to match absorption and emission of R6G.

BrDIPY 581/591 is a borondipyrromethene dye with a conjugated olefinic system. It can be used either as a regular fluorophore, or as a probe for the detection of reactive oxygen species (ROS); after oxidation, its fluorescence moves to the green part of the spectrum.

Related products

* **AF dyes** functionalized by **NHS** (R08112), **Azide** (AXCJ91), **Alkyne** (AXCECA), **DBCO** (AXCECA), **Maleimide** (820731), **Hydrazide** (846631), **Amine** (), **Carboxyl** ()

* Alternative fluorescent dyes:
- **FluoProbes** (Superior brightness and photostability, i.e. FP488) –NHS (BA6800), –Azide (YE4970), –Maleimide (BA6810)
- **CY**$_{\textbf{anine}}$ dyes -Azide (HO7250)
- Classic dyes such as **FAM, R110, JOE TAMRA,** and **ROX.**

* Other labeling/conjugation chemistries: • Click Chemistry reagents

Ordering information

Catalog size quantities and prices may be found at www.interchim.com/
Please inquire for higher quantities (availability, shipment conditions).
For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06