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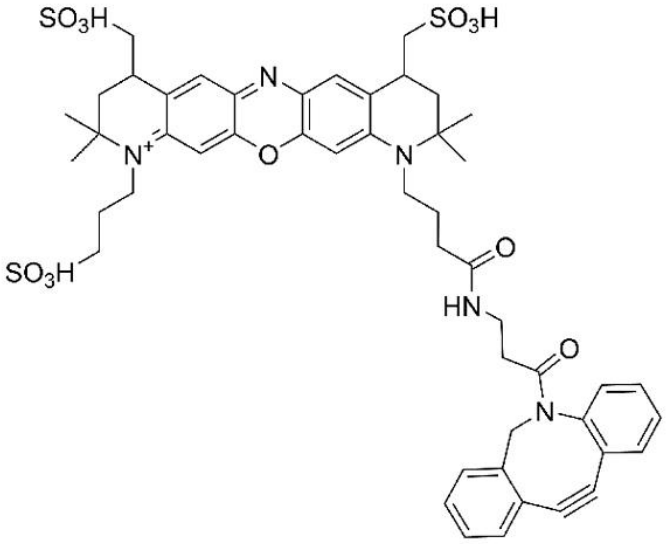
MB 660R DBCO

SKU: CCT-1461



Description

MB 660R DBCO is a bright and very photostable probe used for imaging of azide-containing biomolecules without the need for copper catalyst. MB 660R DBCO reacts with azides via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures. In application where the presence of copper is a concern MB 66oR DBCO is an ideal alternative to copper requiring fluorescent alkynes.

MB 660R is a bright and photostable far-red dye that emits fluorescence at about 685 nm in the borderline spectral region between far-red and near-IR. Although the absorption maximum is at around 665 nm, this dye can be sufficiently excited by the 633 or 635 nm laser. MB 660R dye is water soluble and pH-insensitive from pH 4 to pH 10. MB 660R is a rhodamine-based dye, and like rhodamine dyes in general, it is very bright and exceptionally photostable (Figure 1). The superior photostability and excellent brightness of MB 660R makes this dye an ideal choice for confocal microscopy single molecule imaging and other applications that demand both brightness and photostability.

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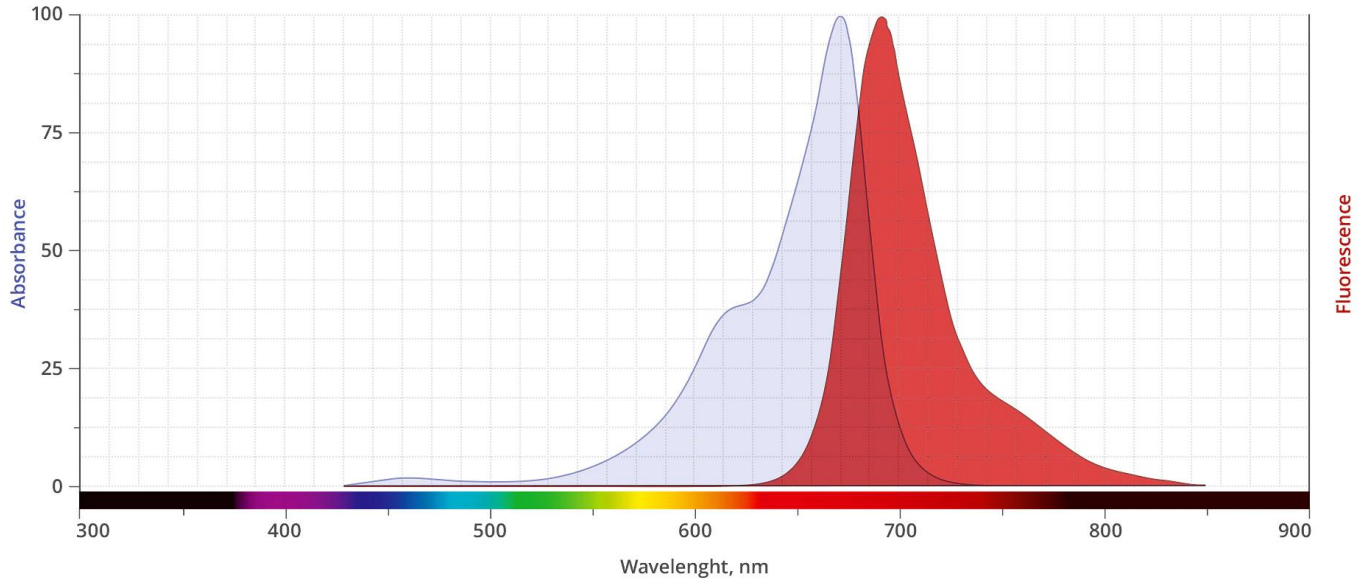

Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	665/690 nm
Extinction Coefficient	92,000
Flow Cytometry Laser Line	633 or 635 nm
Microscopy Laser Line	633 or 635 nm
Spectrally Similar Dyes	Alexa Fluor® 660, CF® 660R
Molecular weight	1003.19
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Blue solid
Storage Conditions	-20°C. Desiccate