www.vectorlabs.com
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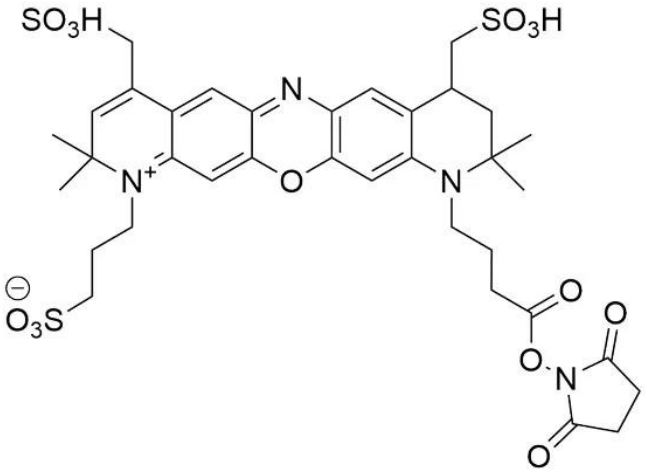
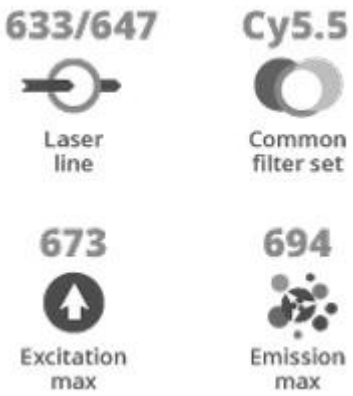
MB 680R NHS ESTER

SKU: FP-1671



DESCRIPTION



MB™ 680R 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 680 nm, this dye can be sufficiently excited by the 633 or 635 nm laser. MB™ 680R dye is water soluble and pH-insensitive from pH 4 to pH 10. MB 680R is a rhodamine-based dye, and like rhodamine dyes in general, it is exceptionally photostable. The superior photostability

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and excellent brightness of MB 680R make the dye an ideal choice for confocal microscopy and other demanding applications.

The NHS Ester reacts specifically and efficiently with a primary amine (e.g., side chain of lysine residues or aminosilane-coated surfaces) at pH 7-9 to form a stable, covalent amide bond. The NHS ester (or succinimidyl ester) is the most popular tool for conjugating dyes to the primary amines of protein or antibody (Lys), amine-modified oligonucleotides, and other amine-containing molecules.

SPECIFICATIONS

Molecular Weight	839.91 (protonated)
Extinction Coefficient	135,000 cm-1M-1
Reactivity	Primary amine
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C.
Spectrally Similar Dyes	Alexa Fluor® 680, CF® 680R
Excitation/Emission Maximum	685/709 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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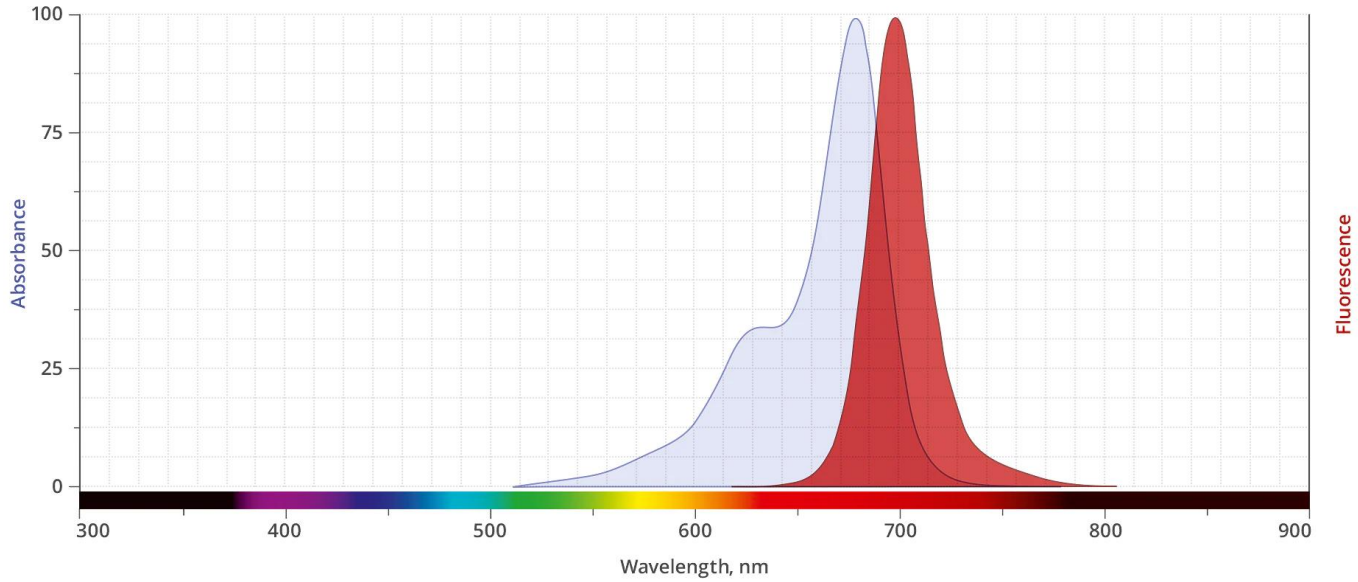
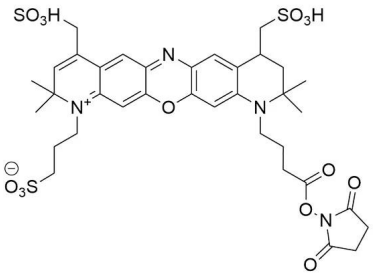


DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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