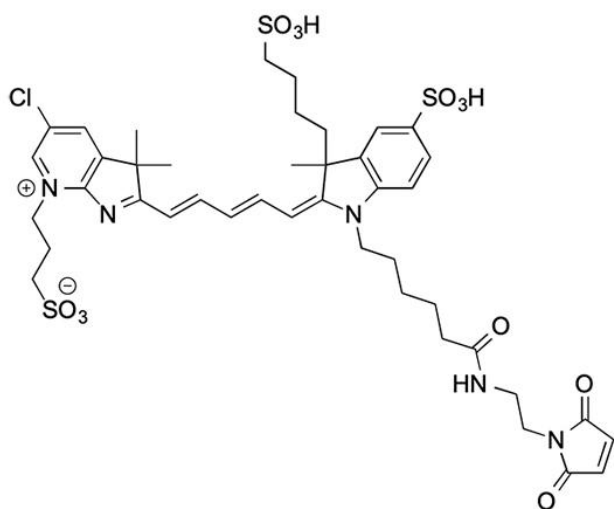




AZDYE 680 MALEIMIDE

SKU: FP-1723



DESCRIPTION

633/647



Laser
line

Cy5.5



Common
filter set

673



Excitation
max

694



Emission
max

AZDye 680 is a bright and photostable near-IR dye that is spectrally identical to Alexa Fluor® 680 and IReDye® 680RD. AZDye 680 is often used for small animal imaging applications in the 700 nm wavelength and provides excellent clearance profiles in animals. Flow cytometry is

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another common application for this dye. AZDye 680 ideally suited for the 633 nm laser line. This near-IR fluorescent dye is water soluble and pH-insensitive from pH 4 to pH 10. AZDye 680 molecules can be attached to proteins at high molar ratios without significant self-quenching, leading to brighter conjugates and more sensitive detection. The long wavelength emission allows for detection in complex samples with auto-fluorescent background signals.

Maleimide is the most popular sulfhydryl-reactive reactive group for conjugating the dye to a thiol group on a protein, oligonucleotide thiophosphate, or low molecular weight ligand. The maleimide group specifically and efficiently reacts with reduced thiols (sulfhydryl groups, -SH) at pH 6.5 to 7.5 to form stable thioether bonds.

SPECIFICATIONS

Molecular Weight	950.53
Extinction Coefficient	185,000 cm ⁻¹ M ⁻¹
Reactivity	Thiol (Cys)
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C.
Spectrally Similar Dyes	Alexa Fluor® 680, DyLight® 680, IREDye® 680
Excitation/Emission Maximum	678/701 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

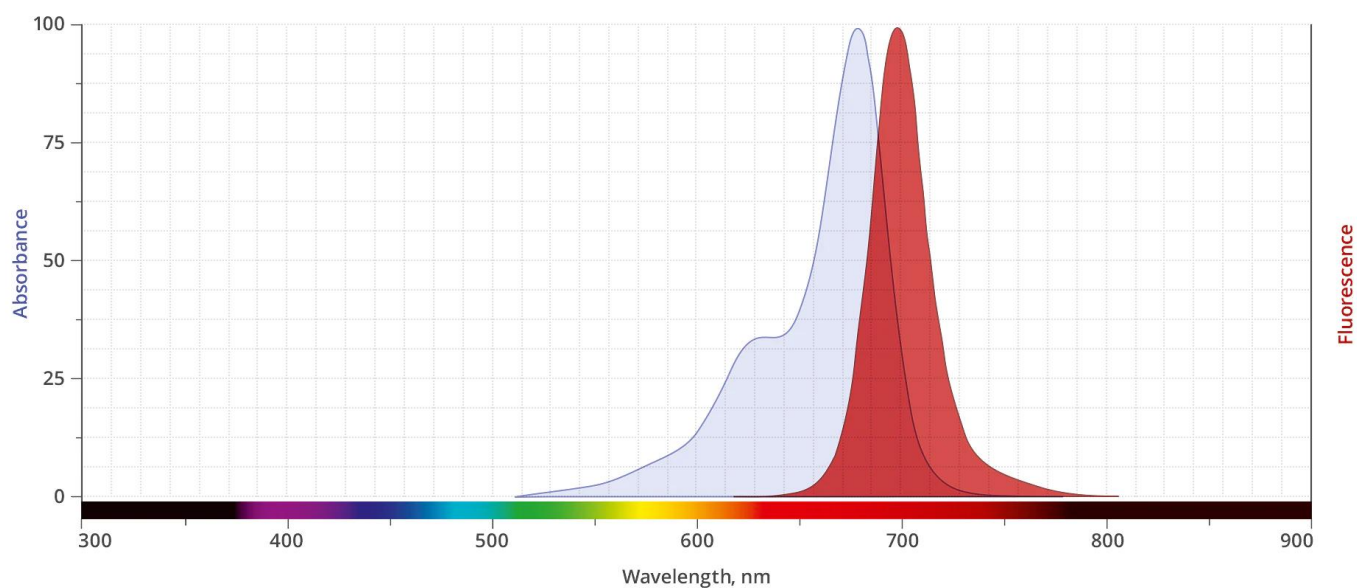
ABS/EM SPECTRA

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- [Safety Data Sheet](#)
- [Datasheet](#)

CC1(C)C(CCC(S(=O)(=O)([O-])[O-])[O-])N1C2=CC=C(C=C2)N(C)C(C)C(C)C(C)C(C)C(=O)NC3CC4C(=O)N(C3)C(=O)C=C4C5=CC=C(C=C5)N(C)C(C)C(C)C(C)C(S(=O)(=O)O)C6=CC=C(C=C6)N(C)C(C)C(C)C(C)C(C)C1

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AZDye 680 Maleimide

<https://vectorlabs.com/products/azdye-680-maleimide/>