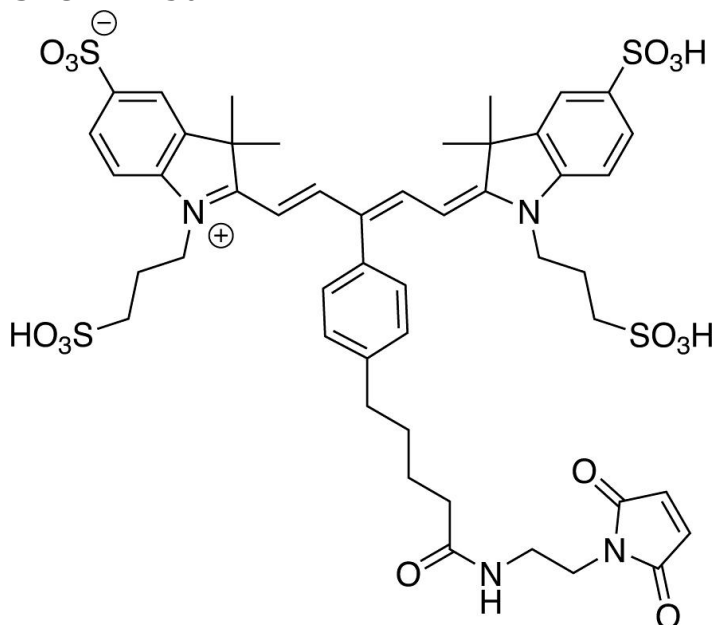




IR 650 MALEIMIDE

SKU: FP-1502



DESCRIPTION

633/647



Laser
line

Cy5



Common
filter set

650



Excitation
max

665



Emission
max

IR 650 Maleimide (IRDye® 650 Maleimide analog) is a water-soluble, bright, far-red-fluorescent dye and is spectrally similar to other 650 dyes that are used for flow cytometry, microscopy and

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other applications. IR 650 conjugates ideally suited for the 633 nm or 647 nm laser lines. A significant advantage to using long wavelength dyes such as Cy5® Dye or Alexa Fluor® 647 dye over other fluorophores is the low autofluorescence of biological specimens in this region of the spectrum.

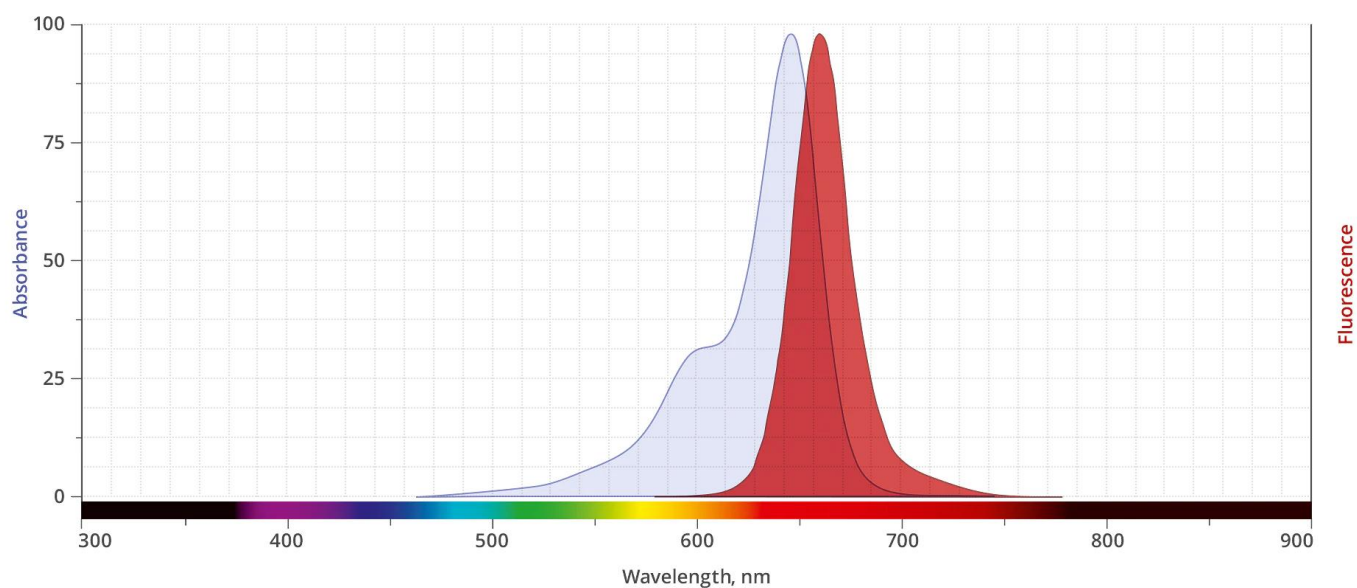
Maleimide is the most popular sulfhydryl-reactive reactive group for conjugating the dye to a thiol group on a protein, oligonucleotide thiophosphate, or low molecular weight ligand. The maleimide group specifically and efficiently reacts with reduced thiols (sulfhydryl groups, -SH) at pH 6.5 to 7.5 to form stable thioether bond. The resulting conjugates exhibit brighter fluorescence and greater photostability than the conjugates of many other spectrally similar fluorophores.

SPECIFICATIONS

Molecular Weight	1057.23
Molecular Formula	C48H56N4O15S4
Chemical Formula	C48H56N4O15S4
Extinction Coefficient	230,000 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	Cy5, Alexa Fluor® 647, DyLight® 649
Excitation/Emission Maximum	651/668 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

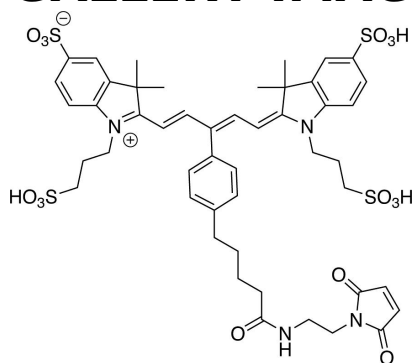
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DOCUMENTS

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

GALLERY IMAGES



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