

Product Information

92821 Fluorescence labelling kit 650

Application

Fluorescence labelling kit 650 is based on a new, red-laser compatible label with low quantum yield except when conjugated to target molecules (ϕ_{em} 0.4 if bound to HSA; ϕ_{em} 0.35 if bound to amino-modified 15-mer oligonucleotide). It is more photo-stable than comparable labels. The kit may be used for all kind of protein labelling applications.

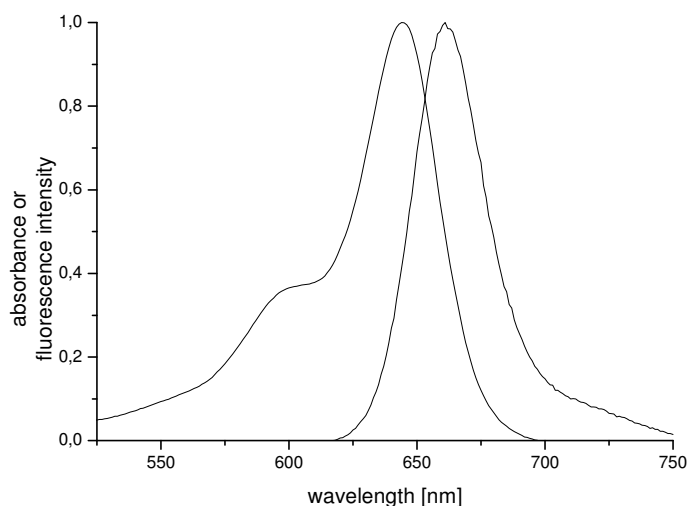
Composition

62164	Reactive red 646	5 vials
88975	Bicarbonate buffer	10 ml
76847	Phosphate buffer	100 ml
	Manual	

Label

Net formula	$C_{39}H_{49}BrN_3O_{10}PS$
MW	862.8
M.P.	>300 °C
Appearance	blue solid
Solubility	soluble in DMF, ethanol, methanol

Absorption and fluorescence emission of Fluorescent red 646 reactive in water of pH 7.0



abs. λ_{max} 646 nm, fluoresc. λ_{max} 666 nm

Directions for labelling proteins with Fluorescent red 646 reactive

Dissolve 2 mg of HSA (or another protein) in 1 mL of bicarbonate buffer. Dissolve the content of one vial of Fluorescent red 646 reactive in 50 µL of bicarbonate buffer and add dropwise to the protein solution. (Caution: The stock solution is not suitable for storage. Please use immediately.) Gently stir the reaction mixture at room temperature for 1 h. Purify the labelled protein by gel chromatography using Sephadex G25 as stationary phase and phosphate buffer as the eluent. Usually, the first blue band is the labelled protein. Generally, the dye-to-protein ratio is about 1 – 2.

Precautions and Disclaimer:

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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