

95043 Fluorescent red 646 reactive

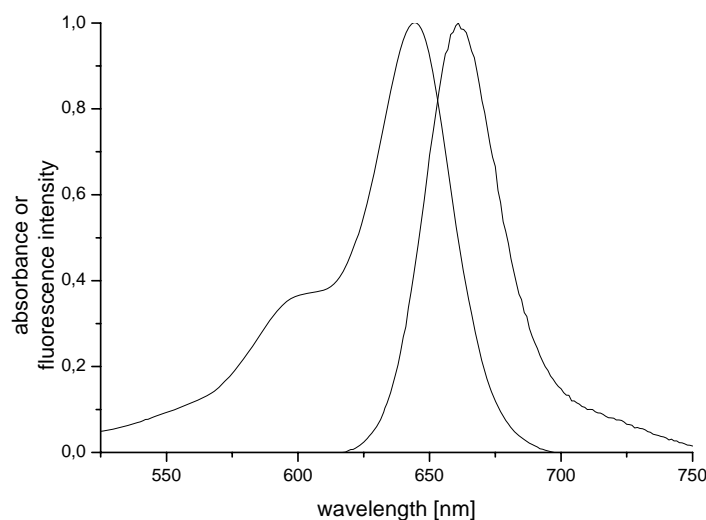
Application

Fluorescent red reactive is a new, red-laser compatible label with low quantum yield except when conjugated to proteins (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.

Product Description

Net formula	$C_{41}H_{43}N_3O_{10}PS$
MW	810.8
M.P.	>300 °C
Appearance	blue solid
Solubility	soluble in DMF, ethanol, methanol
Quantity	1mg

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 protein in 1 mL of bicarbonate buffer (0.1 M, preferably of pH 9.0). Dissolve the content of one vial of Fluorescent red 646 reactive in 400 μ L of bicarbonate buffer and add 50 μ L of this stock solution dropwise to the protein solution. Please use stock solution immediately or store aliquots in freezer. 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 of pH 7.2 (22 mM) as the eluent. Usually, the the first blue band is the labelled protein. Generally, the dye-to-protein ratio is about 1 – 2.