



CERTIFICATE OF ANALYSIS

Product **FLUORESC EIN MALEIMIDE**

Catalog No. SP-1502

Amount 12 mg

Lot No. ZE1128

Storage -20 °C

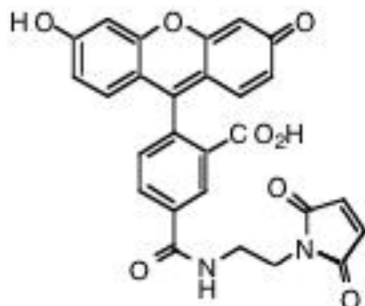
Empirical formula $C_{27}H_{18}N_2O_8$

FW 498.4

λ_{ex} 492nm

λ_{em} 520nm

Structure:



Fluorescein Maleimide is designed for fluoresceinating proteins¹, nucleic acids² or other molecules containing one or more thiol groups. Molecules to be labeled with Fluorescein Maleimide require free thiol groups. In the case of proteins, Fluorescein Maleimide will react with exposed cysteine residues. Alternatively, free thiols may be generated by reducing disulfide bonds or by modifying other reactive groups such as primary amines with compounds like Traut's reagent (2-iminothiolane). Once free thiol groups are available, labeling can be carried out as outlined below. For labeling nucleic acids, thiols can be introduced into DNA, RNA, or oligonucleotides using the FastTag^{®2}, 5' EndTag[™] or 3' EndTag[™]_nucleic acid labeling systems.

Note: Labeled DNA standard (50 μ l λ /Hind III, 2.0 ng/ μ l in TE) is provided as a control for the FastTag[®] nucleic acid labeling protocol and is not intended for use in the procedure for labeling proteins. TE = 10 mM Tris, pH 8.0, 1 mM EDTA.

(see instructions for use and references on the reverse side)