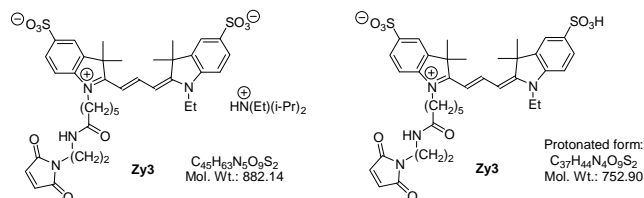


General Data



- Molecular Mass:** 882.14 (selling form)
752.90 (protonated form)
752.90 (add to biomolecule)
- Solubility:** water, alcohol, DMF, DMSO
- Insoluble:** acetone, chloroform, toluene
- Storage:** Store in absence of light, desiccated and refrigerate

Description

- Thiol-reactive fluorescent label containing one reactive maleimide group. Structurally identical with **Cy3TM** (GE).

Applications

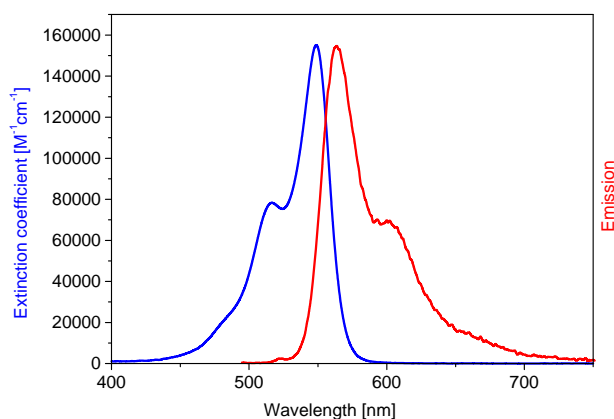
- Covalent labeling of thiol-modified biomolecules.

Spectral Data

Solvent system: phosphate buffer, pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [$M^{-1}cm^{-1}$]	Fluorescence max. [nm]	Quantum Yield [%]	Fluorescence Lifetime [ns]
Zy3	549	150,000 ^[1]	564	4 ^[1]	< 0.3

[1] R.B. Mujumdar, L.A. Ernst, S.R. Mujumdar, C.J. Lewis, A.S. Waggoner. Cyanine dye labeling reagents: sulfoindocyanine succinimidyl esters. Bioconj. Chem. (1993), 4, 105–111.



Absorption and emission spectrum of **Zy3** in phosphate buffer (pH 7.4)