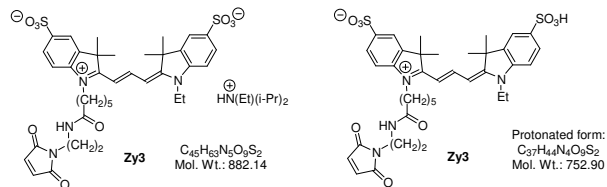


## General Data



**Molecular Mass:** 882.14 (with counter ions)  
752.90 (protonated form)  
752.90 (attached to biomolecules)

**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 **Cy3<sup>TM</sup>** (GE).

## Applications

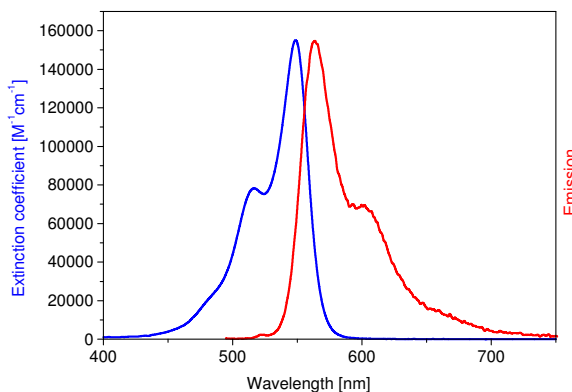
- Covalent labeling of thiol-modified biomolecules.

## 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]
<b>Zy3</b>	549	150,000 <sup>[1]</sup>	564	4 <sup>[1]</sup>	< 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)