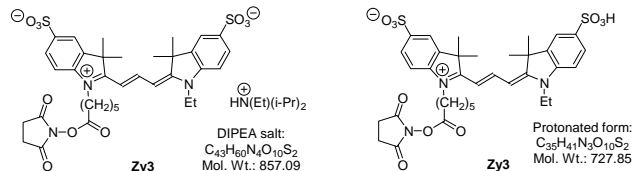


## General Data



**CAS number:** 146368-16-3

**Molecular Mass:** 857.09

727.85 (protonated)

612.76 (add to biomolecule)

**Solubility:** Water, Alcohol, DMF, DMSO

**Insoluble:** Acetone, Chloroform, Toluene

**Storage:** Store in absence of light, desiccated and refrigerate

## Description

- Amine-reactive fluorescent label containing one reactive NHS-ester groups. Structurally identical with **Cy3<sup>TM</sup>** (GE).

## Applications

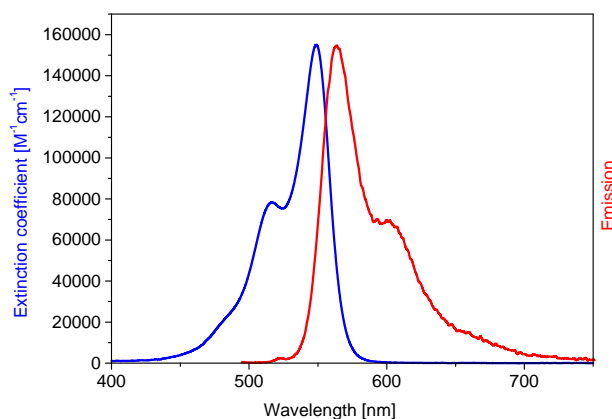
- Covalent labeling of proteins, amino-modified DNA and amino-modified oligonucleotides.

## Spectral Data

**Solvent system:** phosphate buffer, pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [ $M^{-1}\cdot cm^{-1}$ ]	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)