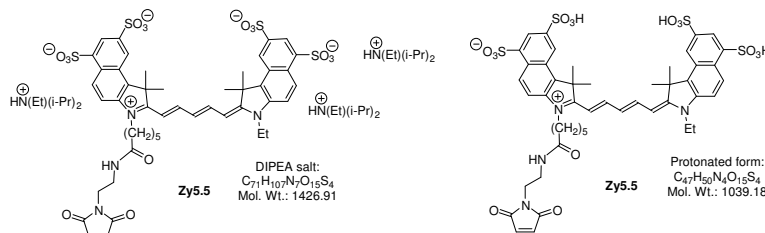


General Data



Molecular Mass: 1426.91 (with counter ions)
1039.18 (protonated form)
1039.18 (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 **Cy5.5TM** (GE).

Applications

- Covalent labeling of thiol-modified biomolecules.

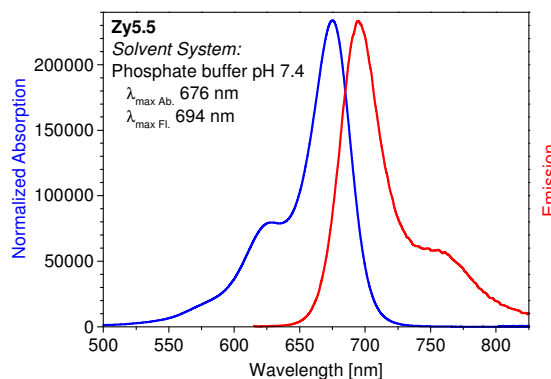
Spectral Data

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]
Zy5.5	676	190,000 ^[1,2]	694	23 ^[1,2]	1.0 ^[2]

[1] S.R.Mujumdar, R.B.Mujumdar, C.M.Grant, A.S.Waggoner. Cyanine-labeling reagents: sulfobenzindocyanine succinimidyl esters. Bioconjugate Chem. (1996), 7, 356–362.

[2] GE Healthcare.



Absorption and emission spectrum of **Zy5.5** in phosphate buffer (pH 7.4)