

Product number: K8-1355

Product name: Square-680-Carboxy

General Data

Molecular Mass: 572.70

Solubility: Chloroform, Acetone, Alcohol, DMF, DMSO

Insoluble: Water

Storage: Store in absence of light and refrigerate

Description

- Hydrophobic fluorescent dye. Fluorescent probe.

Applications

- Cells' staining
- Fluorescent probe for proteins
- Dye for beads

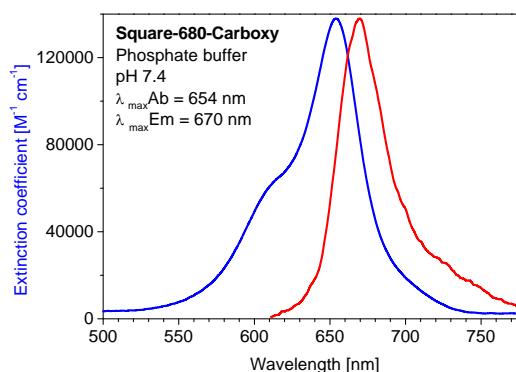
Advantages

- Perfectly suited for excitation with the 380, 404, 635 and 670-nm diode lasers and UV light
- Sensitive; high extinction coefficients and quantum yields in presence of proteins
- Quantum yields increase upon non-covalent association with biomolecules
- pH-insensitive between pH 3 and pH 10
- High photostability; e.g. compared to fluorescein or Cy5TM

Spectral Data

Solvent	Absorption max. [nm]	Extinction Coefficient [$M^{-1}cm^{-1}$]	Fluorescence max. [nm]	Quantum Yield ¹ [%]
Phosphate buffer pH 7.4	654	138,000	670	1
In presence of 1 mg/mL of BSA	688	168,000	708	62
Chloroform	683 381	202,000 38,000	701	45
Methanol	668		690	10

¹ Excitation at 630 nm

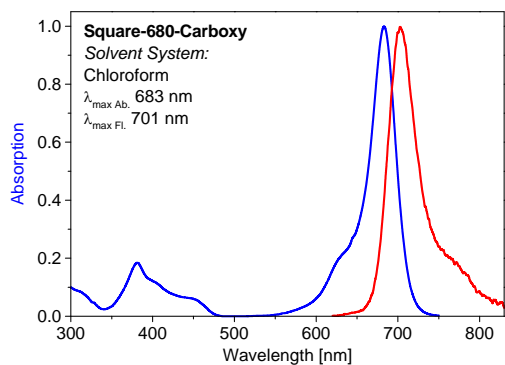


Absorption and emission spectrum of **Square-680-Carboxy** ($c = 1 \mu M$) in phosphate buffer pH 7.4

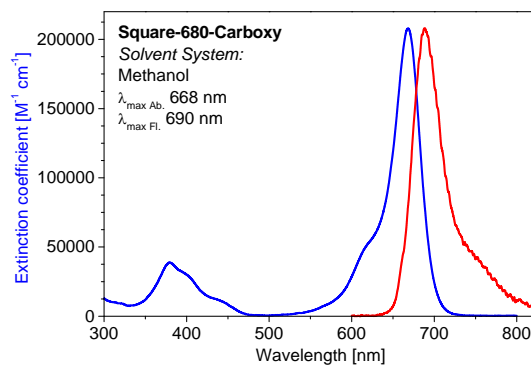
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Absorption and fluorescence spectra of **Square-680-Carboxy** in chloroform



Absorption and fluorescence spectra of **Square-680-Carboxy** in methanol