

Product number: K8-1355

Product name: Square-670H-mono-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

Applications

- Cells' staining
- Fluorescent probe
- Dye for beads

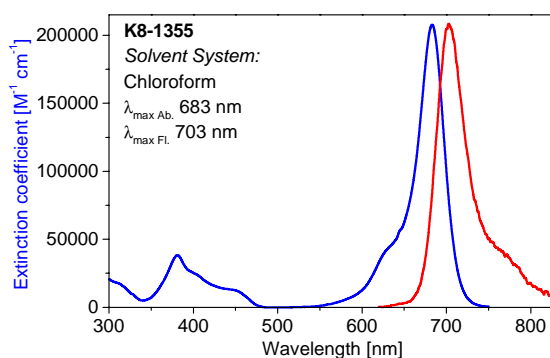
Advantages

- Perfectly suited for excitation with the 380, 404, 635 and 670-nm diode lasers and UV light
- Sensitive; high extinction coefficients and quantum yields
- Quantum yields increase upon covalent or non-covalent association with biomolecules
- pH-insensitive between pH 3 and pH 10
- High photostability; e.g. compared to fluorescein or Cy5™

Spectral Data

Solvent	Absorption max. [nm]	Extinction Coefficient [$M^{-1}\cdot cm^{-1}$]	Fluorescence* max. [nm]	Quantum Yield [%]
Chloroform	683 381	208,000 38,000	703	45
Methanol	668		690	10
Phosphate buffer pH 7.4	654		671	1
In presence of 1 mg/mL of BSA	688	168,000	708	62

* Excitation at 630 nm



Absorption and fluorescence spectrum of **K8-1355** in chloroform