

Product number: K8-1357
Product name: Square-685-mono-NHS

General Data

- Molecular Mass:** 669.77
- Solubility:** Chloroform, Acetone, Alcohol, DMF, DMSO
- Insoluble:** Water
- Storage:** Store in absence of light, desiccate and refrigerate

Description

Hydrophobic, amine-reactive fluorescent label containing one reactive NHS-ester group.

Applications

- Covalent labeling of amino-modified lipids and oligonucleotides
- Resonance Energy Transfer (RET) based applications
- Homogeneous Assays

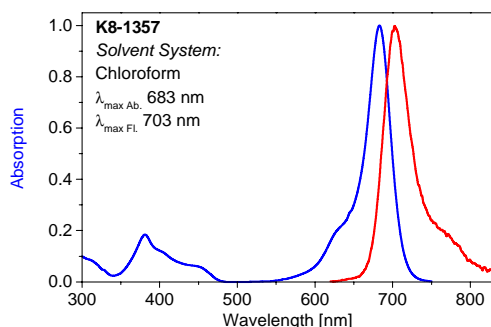
Advantages

- 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**TM
- Low molecular weight — **Square** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, amino-modified oligonucleotides and amino-modified lipids

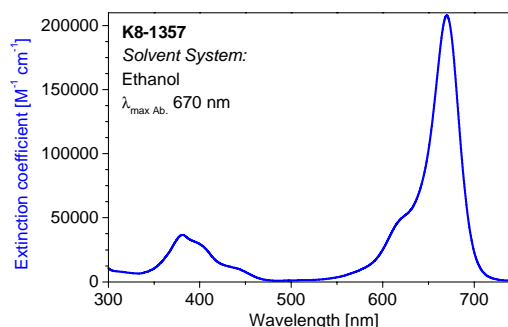
Spectral Data

Solvent	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ .cm ⁻¹]	Fluorescence* max. [nm]	Quantum Yield [%]
Chloroform	683	208,000	703	45
Ethanol	670			

* Excitation at 630 nm



Absorption and fluorescence spectra of **K8-1357** in chloroform



Absorption spectra of **K8-1357** in ethanol