



Product number: K8-1500 Product name: Square-655

http://www.setabiomedicals.com e-mail: info@setabiomedicals.com

General Data

Molecular Mass: 446.50

Solubility: chloroform, alcohol, DMF, DMSO

Insoluble: water

Storage: Store in absence of light and refrigerate

Description

• Highly sensitive, hydrophobic fluorescent dye.

Applications

- · Cell staining.
- Fluorescent probe for albumin and other proteins.
- Dye for encapsulation in beads (particle encoding).
- Gel-electrophoresis

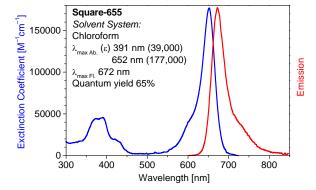
Advantages

- Highly fluorescent probe.
- Quantum yield of 80% in presence of albumin.
- Perfectly suited for excitation with the 380-nm, 405-nm, 635-nm, and 650-nm diode lasers.

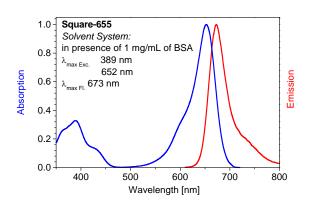
Spectral Data

Solvent	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ ·cm ⁻¹]	Fluorescence max. [nm]	Quantum Yield ¹ [%]
Chloroform	652 391	177,000 39,000	672	65
Methanol	628		654	22
Phosphate buffer pH 7.4	622		644	<0.1
In presence of 1 mg/mL of BSA	652		672	80

¹ Excitation at 655 nm

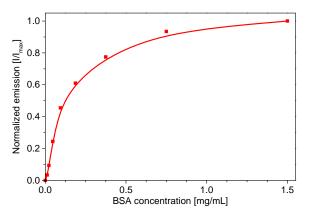


Absorption and emission spectrum of Square-655 in chloroform



Absorption and emission spectrum of **Square-655** in presence of 1 mg/mL of BSA

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Normalized emission of Square-655 in BSA solutions: Intensity vs. BSA concentration