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

Product number: K8-1351
Product name: Square-660-mono-carboxy

General Data

Molecular Mass: 714.91

Solubility: Water, Alcohol, DMF, DMSO

Insoluble: Acetone, Chloroform, Toluene

Storage: Store out of light, desiccated and refrigerate

Description

Fluorescent probe

Advantages

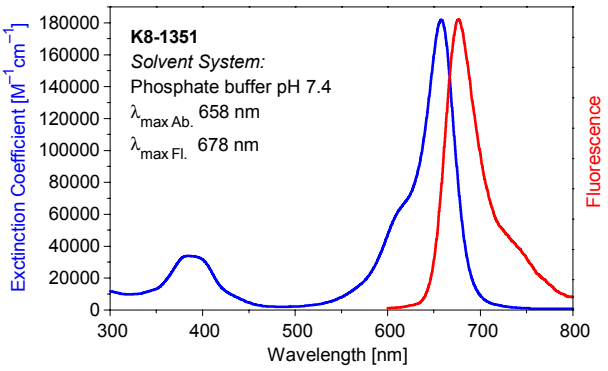
- Perfectly suited for excitation with the 670-nm diode laser, 404-nm laser and UV light
- Sensitive; high extinction coefficients and high quantum yields up to 25% in presence of proteins
- Good aqueous solubility
- High photostability; e.g. compared to fluorescein or **Cy5**™
- Low molecular weight

Spectral Data

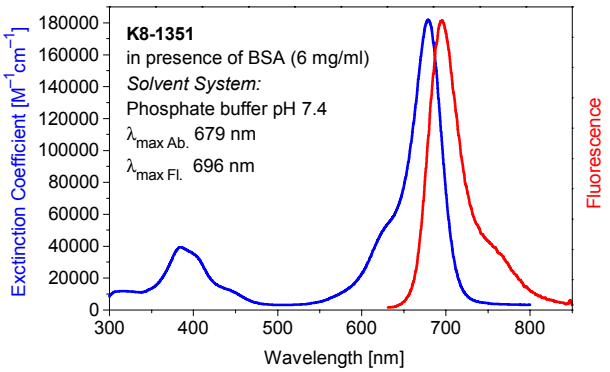
Solvent System: phosphate buffer pH 7.4

Concentration of BSA	Absorption max. [nm]	Extinction Coefficient [$M^{-1} \cdot cm^{-1}$]	Fluorescence* max. [nm]	Quantum Yield [%]
0	658	182,000	678	3
6 mg/ml	679		696	24

* Excitation at 620 nm



Absorption and fluorescence spectra of **K8-1351**
in phosphate buffer (pH 7.4)



Absorption and fluorescence spectra of **K8-1351**
in presence of BSA (6 mg/ml)
in phosphate buffer (pH 7.4)

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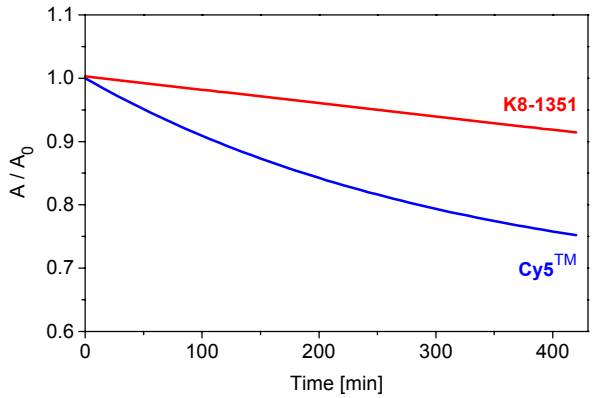
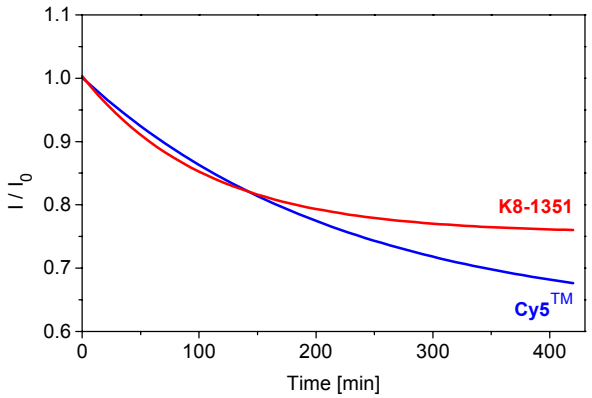
Photostability

when exposed to light from a lamp (200 W)

Solvent System: phosphate buffer pH 7.4



Decay of the long-wavelenght absorption band of **K8-1351** as compared to **Cy5**™



Decay of the fluorescence intensity of **K8-1351** as compared to **Cy5**™