

General Data

- Molecular Mass:** 374.28
- Solubility:** Water, alcohol, DMF, DMSO
- Insoluble:** Acetone, toluene
- Storage:** Store in absence of light, desiccated and refrigerate

Description

- Hydrophilic, positively charged label containing one amino group.

Applications

- Covalent labeling of proteins, DNA and oligonucleotides
- Resonance Energy Transfer (RET)
- Flow Cytometry
- Immunofluorescence
- Gene Expression
- Homogeneous Assays
- Assessment of protein structure

Advantages

- Perfectly suited for excitation with the 330 and 380-nm diode lasers and UV light
- Extremely large Stokes' shift** of over 120 nm
- High extinction coefficients and high quantum yields of 59%
- Low non-specific binding
- pH-insensitive between pH 3 and pH 10
- Good aqueous solubility; this label does not alter the solubility of the protein conjugate
- High photostability; e.g. compared to fluorescein
- Low molecular weight — **Seta** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, DNA probes and oligonucleotides

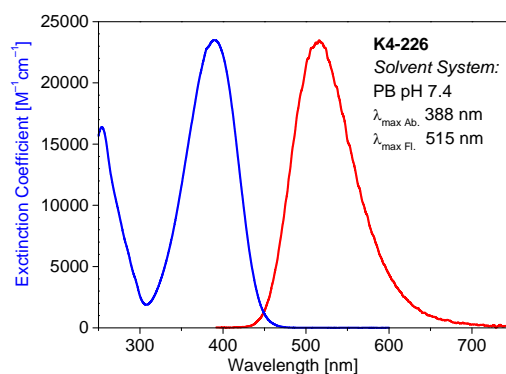
Spectral Data

Solvent System: phosphate buffer pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]	Fluorescence max. [nm]	Q.Y. ¹ [%]
Free dye	388	23,500	515	59

¹ Excitation at 380 nm

Product number: K4-226
Product name: Seta-385-Amino



Absorption and emission spectra of **K4-226** in phosphate buffer (pH 7.4)