

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

Product name: Seta-400-Amino

General Data

| Molecular Mass: | 390.27 | | |
|-----------------|---|--|--|
| Solubility: | Water, Alcohol, DMF, DMSO | | |
| Insoluble: | Toluene, Hexane | | |
| Storage: | Store in absence of light, desiccated and refrigerate | | |

Description

Positively charged, water-soluble label containing one amino group with extremely large Stokes shift

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 370-nm, 380-nm and 405-nm diode lasers •
- Extremely large Stokes' shift of over 170 nm •
- Low molecular weight Seta dyes do not add substantial mass to the conjugates
- Soluble in aqueous buffers
- Ideal for non-radioactive labeling of proteins, DNA probes and oligonucleotides

Spectral Data

Solvent System: phosphate buffer (pH 7.4)

| Sample | Absorption | Extinction | Fluorescence | Quantum |
|----------|------------|-------------------------------------|--------------|-----------------|
| | max. | Coefficient | max. | Yield |
| | [nm] | [M ⁻¹ cm ⁻¹] | [nm] | [%] |
| Free dye | 402 | 24,000 | 585 | 22 ¹ |

¹ Quinine in 0.1 M H₂SO (QY = 54.6% [1]) was used as the reference. $\lambda_{Ex.}$ = 355 nm.

[1] A.M.Brouwer (2011) Standards for photoluminescence quantum yield measurements in solution (IUPAC Technical Report). Pure Appl. Chem., Vol. 83, No. 12, pp. 2213-2228.



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Absorption and emission spectra of K4-216 in phosphate buffer (pH 7.4)