

# Product number: K8-1382 Product name: Seta-660-ammonium-NHS

## **General Data**

Molecular Mass:	812.03 (without counter ion)		
Solubility:	Alcohol, Chloroform, DMF, DMSO		
Insoluble:	Water		
Storage:	Store out of light, desiccated and refrigerate		

#### **Description**

Positively charged, amine-reactive fluorescent label containing reactive NHS-ester group.

#### **Applications**

Covalent labeling of proteins, amino-modified DNA and amino-modified oligonucleotides. Fluorescence Lifetime Label — this label exhibits a distinct lifetime change upon binding to a biomolecule Gel electrophoresis

#### **Advantages**

- Perfectly suited for excitation with the 635, 670-nm diode laser, the 370, 405-nm diode lasers, and UV light
- Sensitive; high extinction coefficient and high quantum yield up to 25% after covalent attachment to proteins
- When bound to a protein the quantum yield is higher as compared to  $\textbf{Cy5}^{\text{TM}}$
- 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 or Cy5<sup>TM</sup>
- Low molecular weight Seta dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, amino-modified DNA probes and amino-modified oligonucleotides

### **Spectral Data**

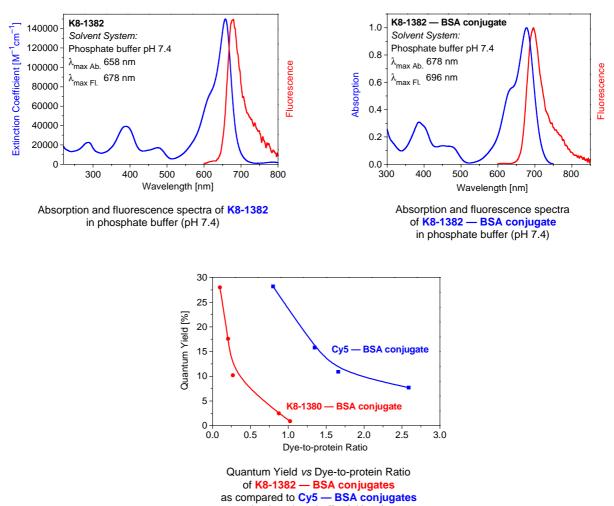
Solvent system: phosphate buffer, pH 7.4

Sample	Dye-to-protein Ratio	Absorption max. [nm]	Extinction Coefficient [M <sup>-1</sup> ·cm <sup>-1</sup> ]	Fluorescence* max. [nm]	Quantum Yield [%]
Free dye	—	658	150,000	678	2
BSA conjugate	0.1	678		696	28
BSA conjugate	0.3	678		696	10
BSA conjugate	1.0	675		693	1

\* Excitation at 620 nm



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