

**Product number: K8-1669**

**Product name: Seta-635-NH-mono-NHS**

## General Data

**Molecular Mass:** 753.80 (protonated form), 1012.28 salt with two molecules of DIPEA

**Solubility:** Water, Alcohol, DMF, DMSO

**Insoluble:** Acetone, Chloroform, Toluene

**Storage:** Store out of light, desiccated and refrigerate

## Description

Amine-reactive fluorescent label containing one reactive NHS-ester group

## Applications

Covalent labeling of amino-modified DNA, amino-modified oligonucleotides and other small molecules

Fluorescence Lifetime Label — this label exhibits a distinct lifetime change upon binding to a biomolecule

## Advantages

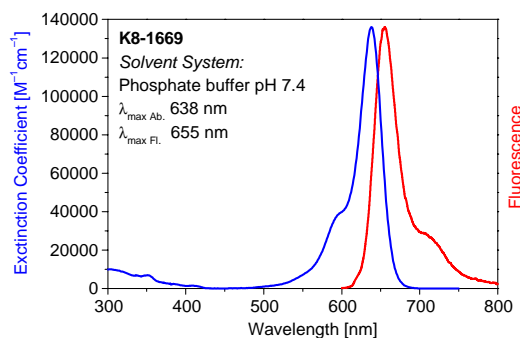
- Perfectly suited for excitation with the 635-nm diode laser
- Sensitive; high extinction coefficients and high quantum yields up to 30%
- Low non-specific binding
- Good aqueous solubility; this label does not alter the solubility of the protein conjugate
- Low molecular weight — **Seta** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of amino-modified DNA probes, amino-modified oligonucleotides and other small molecules

## Spectral Data

**Solvent System:** phosphate buffer, pH 7.4

Sample	Dye-to-protein Ratio	Absorption max. [nm]	Extinction Coefficient [ $M^{-1}\cdot cm^{-1}$ ]	Fluorescence* max. [nm]	Quantum Yield [%]
Free dye	—	638	136,000	655	31

\* Excitation at 620 nm



Absorption and emission spectra of **K8-1669** in phosphate buffer (pH 7.4)