

Product number: K8-1664
Product name: Seta-640-NH-mono-Maleimide

General Data

Molecular Mass: 1037.34
 778.85 (protonated form)
Solubility: Water, Alcohol, DMF, DMSO
Insoluble: Acetone, Chloroform, Toluene
Storage: Store in absence of light, desiccated and refrigerate

Description

Water-soluble, thiol-reactive fluorescent label containing one reactive maleimide groups.

Applications

Covalent labeling of thiol-modified peptides, oligonucleotides, and proteins

Advantages

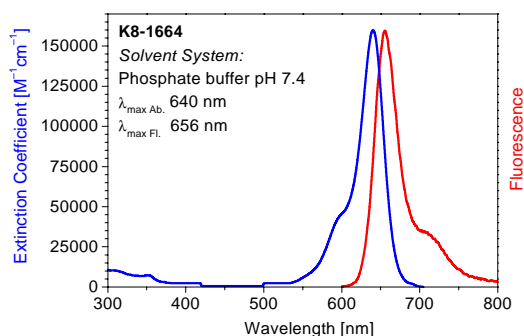
- Perfectly suited for excitation with the 635-nm diode laser
- Sensitive; high extinction coefficient
- Low non-specific binding
- pH-sensitive between pH 9 to 12, and pH-insensitive between pH 3 to 8
- Good aqueous solubility; this label does not alter the solubility of a protein conjugate
- Low molecular weight — **Seta** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of thiol-modified peptides, oligonucleotides, and proteins

Spectral Data

Solvent system: phosphate buffer, pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [$M^{-1}\cdot cm^{-1}$]	Fluorescence* max. [nm]	Quantum Yield [%]
Free dye	640	160,000	656	12

* Excitation at 620 nm



Absorption and emission spectrum of **K8-1664** in phosphate buffer (pH 7.4)