

**Product number: K8-1641**

**Product name: Seta-632-Maleimide**

## General Data

- Molecular Mass:** 1201.56  
943.07 (protonated form)
- Solubility:** water, alcohol, DMF, DMSO
- Insoluble:** acetone, chloroform, toluene
- Storage:** Store in absence of light, desiccate and refrigerate

## Description

- Highly hydrophilic, thiol-reactive fluorescent label containing one reactive maleimide group

## Applications

- Covalent labeling of thiol-modified peptides, oligonucleotides, and proteins
- Fluorescence Lifetime Label — this label exhibits a distinct lifetime change upon binding to a biomolecule
- Fluorescence intensity and fluorescence polarization-based applications

## Advantages

- Perfectly suited for excitation with the 635 nm diode lasers
- Sensitive; high extinction coefficients and high quantum yields after covalent attachment to biomolecules
- Quantum yield is highly increased after covalent and non-covalent association with proteins
- pH-insensitive between pH 3 and pH 10
- Good aqueous solubility; this label does not alter the solubility of the bioconjugate
- High photostability
- Low molecular weight — **Seta** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of thiol-modified proteins, peptides, and oligonucleotides

## Spectral Data

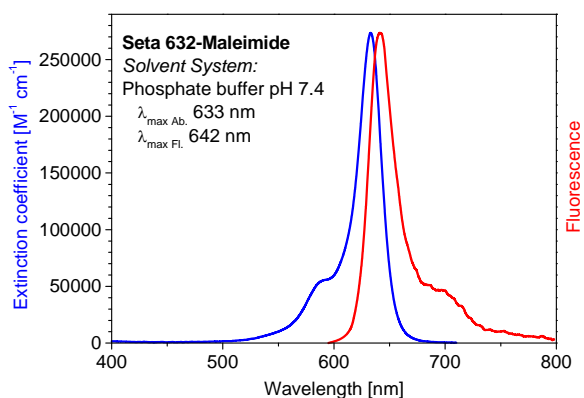
**Solvent System:** phosphate buffer pH 7.4

Absorption max. [nm]	Extinction Coefficient [ $M^{-1}cm^{-1}$ ]	Fluorescence max. [nm]	Quantum Yield <sup>1</sup> [%]
633	270,000	642	5

<sup>1</sup> Excitation at 620 nm

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Absorption and emission spectrum of **Seta-632-Maleimide** in phosphate buffer (pH 7.4)