

Product number: K8-5036 Product name: Seta-650-Maleimide

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

General Data

 Molecular Mass:
 1295.65

 1037.17 (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 label containing one maleimide group.

Applications

- Covalent labeling of proteins, peptides, thiol-modified DNA and thiol-modified oligonucleotides
- Fluorescence intensity and fluorescence polarization-based applications
- Resonance Energy Transfer (RET)
- Flow Cytometry
- Immunofluorescence
- Gene Expression
- Homogeneous Assays
- Microarrays

Advantages

- Perfectly suited for excitation with the 635-nm and 650-nm diode lasers
- · Sensitive; high extinction coefficients and high quantum yields after covalent attachment to biomolecules
- pH-insensitive between pH 3 and pH 10
- Good aqueous solubility; this label does not alter the solubility of the bioconjugate
- High photostability compared to fluorescein, Atto 647, DyLight 650, Alexa 647 or Cy5[™]
- Low molecular weight Seta dyes do not add substantial mass to the conjugates
- Ideal for labeling of proteins, and thiol-modified oligonucleotides, lipids and peptides

Spectral Data

Solvent System: phosphate buffer pH 7.4

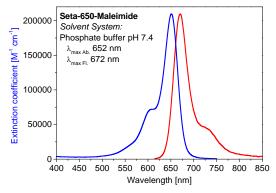
Sample	Absorption	Extinction	Fluorescence	Quantum
	max.	Coefficient	max.	Yield ¹
	[nm]	[M ⁻¹ cm ⁻¹]	[nm]	[%]
Free dye	652	200,000	672	28

¹ Excitation at 610 nm



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Absorption and emission spectrum of **Seta-650-Maleimide** in phosphate buffer (pH 7.4)