

## Product number: K8-5045 Product name: Seta-650-DBCO

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

#### **General Data**

Molecular Mass: 1431.85

	1173.36 (protonated)
Solubility:	Water, Alcohol, DMF, DMSO
Insoluble:	Acetone, Chloroform, Toluene
Storage:	Store in absence of light, desiccate and refrigerate

### **Description**

 Highly hydrophilic, azide-reactive reagent containing one dibenzocyclo-octyne (DBCO) functionality for strain-medicated Cu-free click chemistry reactions.

### **Applications**

- Cu-free click chemistry reaction with azide-modified proteins, azide-modified DNA and azide-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 635, 647 or 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 a bioconjugate
- High photostability; e.g. compared to Cy5™
- Ideal for non-radioactive labeling of azide-modified molecules (drugs, proteins, oligos, lipids and DNA)

### **Spectral Data**

Solvent System: phosphate buffer pH 7.4

Sample	Absorption	Extinction	Fluorescence	Quantum
	max.	Coefficient	max.	Yield <sup>1</sup>
	[nm]	[M <sup>-1</sup> cm <sup>-1</sup> ]	[nm]	[%]
Free dye	653	200,000	674	28

<sup>1</sup> Excitation at 610 nm



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