

Product number: K8-3345

Product name: Seta-555-DBCO

General Data

- Molecular Mass:** 1147.32 (protonated form)
Solubility: Water, Alcohol, DMF, DMSO
Insoluble: Acetone, Chloroform, Toluene
Storage: Store in absence of light, desiccate and refrigerate

Description

- Highly hydrophilic click chemistry reagent containing one dibenzocyclo-octyne (DBCO) group for strain-mediated cycloaddition reactions with azides. It features the same excitation and emission wavelengths as **Cy3™** and **Alexa Fluor™ 555** and can therefore be used with these filter sets. It combines high photostability and brightness.

Applications

- Strain-mediated click chemistry reactions with azide-modified reagents and biomolecules.

Advantages

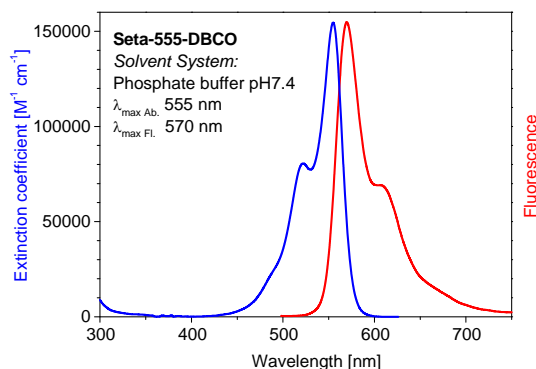
- Perfectly suited for excitation with the 532-nm laser
- Good aqueous solubility:** this label does not alter the solubility of the protein conjugate
- Low molecular weight:** **Seta 555-DBCO** does not add substantial mass to the conjugates
- Photostability:** Higher photostability as compared to **Alexa Fluor™ 555** or **Cy3**
- Ideal for non-radioactive labeling of azide modified molecules (drugs, proteins, oligos and DNA)

Spectral Data

Solvent System: phosphate buffer pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [$M^{-1}cm^{-1}$]	Fluorescence max. [nm]	Quantum Yield ¹ [%]
Free dye	555	155,000	570	7

¹ Excitation at 490 nm



Absorption and emission spectrum of a **Seta-555-DBCO** in phosphate buffer (pH 7.4)