



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

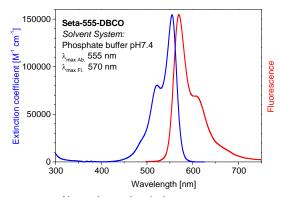
- Perfectly suited for excitation with the 532-nm laser
- Good aqueous solubility: this label does not alter the solubility of the protein conjugate
- Low molecular weight: Seta 555-DBCO does not add substantial mass to the conjugates
- Photostability: Higher photostability as compared to Alexa Fluor™ 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)