

Product number: K8-3346

Product name: Seta-555-Azide

General Data

- Molecular Mass:** 943.06
- Solubility:** water, alcohol, DMF, DMSO
- Insoluble:** acetone, chloroform, toluene
- Storage:** Store in absence of light, desiccated and refrigerate

Description

- Hydrophilic, alkyne-reactive, long-lifetime reagent for click chemistry containing one azide function. Azides react with C≡C-triple bonds in either a Cu(I)-catalyzed or Cu-free 1,3-dipolar cycloaddition reaction to triazole.

Applications

- Click Chemistry reagent.

Advantages

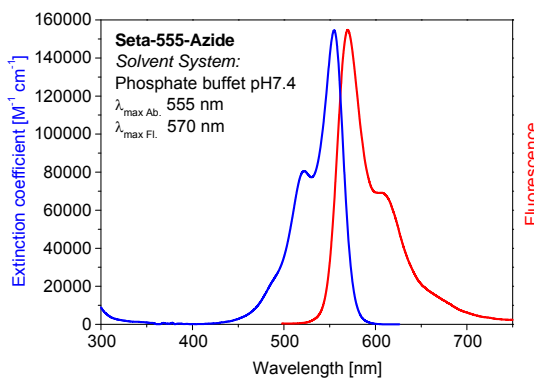
- Perfectly suited for excitation with the 532-nm laser
- Good aqueous solubility:** this label does not alter the solubility of the protein conjugate
- Low molecular weight:** **Seta-555** does not add substantial mass to the conjugates
- Photostability:** Higher photostability as compared to **Alexa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

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-Azide** in phosphate buffer (pH 7.4)