SETA BioMedicals
Fluorescent Tools for BioMedical Applications
http://www.setabiomedicals.com
e-mail: info@setabiomedicals.com

Product number: K8-7046
Product name: Seta-750-Azide

General Data

Molecular Mass: 1023.19

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
- Fluorescence intensity and fluorescence polarization-based applications
- Resonance Energy Transfer (RET)

Advantages

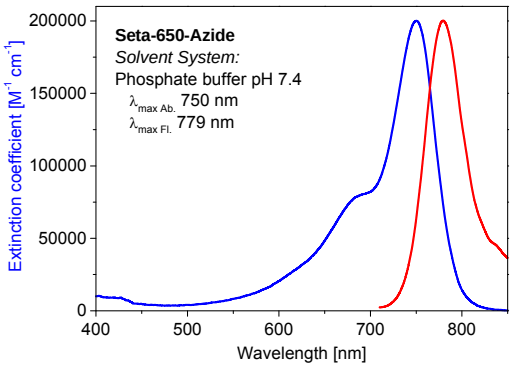
- Perfectly suited for excitation with the 680, 700 or 750 nm diode lasers
- Sensitive; high extinction coefficients and high quantum yields
- pH-insensitive between pH 3 and pH 10
- Good aqueous solubility: this label does not alter the solubility of the bioconjugate
- Photostability: Higher photostability as compared to **Cy7**™
- Low molecular weight: **Seta** dyes do not add substantial mass to the conjugates
- 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	750	200,000	779	22

[1] Excitation at 490 nm



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