

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

Product number: K8-7045 Product name: Seta-750-DBCO

General Data

Molecular Mass:	1429.83		
	1171.34 (protonated form)		
Solubility:	Water, Alcohol, DMF, DMSO		
Insoluble:	Acetone, Chloroform, Toluene		
Storage: Store in absence of light, desiccate and refri			

Description

 Seta 750-DBCO (K8-7045) is a highly hydrophilic click chemistry reagent containing one dibenzocyclo-octyne (DBCO) group for strainmediated cycloaddition reactions with azides. It features the same excitation and emission wavelengths as Cy7, Alexa Fluor™ 750 or Seta 750 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 680, 700 or 750 nm diode lasers
- Sensitive; high extinction coefficients and high quantum yields (about twice as high as Alexa 750)
- pH-insensitive between pH 3 and pH 10
- Good aqueous solubility
- High photostability; e.g. compared to fluorescein, Cy7 or Alexa 750
- Low molecular weight Seta-750 does not add substantial mass to the conjugates

Spectral Data

Solvent System: phosphate buffer pH 7.4

Sample	Absorption	Extinction	Fluorescence	Quantum
	max.	Coefficient	max.	Yield ¹
	[nm]	[M ⁻¹ cm ⁻¹]	[nm]	[%]
Free dye	754	235,000	782	21

¹ Excitation at 700 nm



Absorption and emission spectrum of **Seta-750-DBCO** in phosphate buffer (pH 7.4)