CLICKable Fluorescent Dyes

Jena Bioscience
Building Blocks of Life

Click Chemistry describes pairs of functional groups that rapidly react ("click") with each other under mild, aqueous conditions. **Molecules** that have been **functionalized with a CLICK moiety** (e.g. a terminal Alkyne) **can be detected by labeling with a compatible CLICKable fluorescent dye** (e.g. a fluorescent Azide) that allows the **subsequent visualization by fluorescence spectroscopy**.

A number of CLICKable fluorescent dyes have been thoroughly selected to cover the whole UV-VIS spectrum:

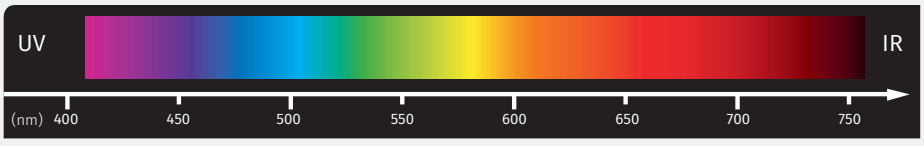

Figure 1: *Visible spectrum of light.*

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Table 1: *Overview of available CLICKable fluorescent dyes.* | ✔ = **Product link. Please click for more information.**

Emission Color	Labeling dye	Azide	Picolyl-Azide	Alkyne	DBCO* =ADIBO/DIBAC	Tetrazine	6-Methyl-Tetrazine
blue	**7-Hydroxycoumarin**	✔					
	ATTO425				✔		
green	**5-Fluorescein**	✔		✔		✔	✔
	6-Fluorescein	✔		✔			
	5/6-Fluorescein		✔		✔		
	Dansyl	✔					
	5/6-Carboxyrh. 110	✔		✔	✔		
	ATTO 488				✔	✔	✔
	AF488 (also known as Alexa Fluor®488)	✔	✔	✔	✔		
	BDP-FL (also known as BODIPY®FL)	✔		✔	✔	✔	✔
yellow green	**ATTO 532**					✔	✔
yellow	**Sulfo-Cy3**	✔	✔	✔	✔		✔
	Cy3	✔				✔	
	5-TAMRA	✔		✔		✔	✔
	5/6-TAMRA	✔	✔	✔	✔		
	5/6-Sulforhodamine B	✔		✔	✔		
orange	**5/6-Texas Red**	✔		✔	✔		
	AF594 (also known as Alexa Fluor®594)	✔	✔	✔	✔		
red	**Sulfo-Cy5**	✔	✔	✔	✔		✔
	Cy5	✔				✔	
	ATTO 647N					✔	✔
	Cy5.5	✔	✔	✔	✔		
Near-IR	**Cy7**	✔	✔	✔	✔		

*DBCO = **Dib**enzo**cyclo**o**ctyne, ADIBO = **A**za**dib**enzocyclo**o**ctyne, DIBAC = **Dib**enzo**a**za**c**yclooctyne

Check out our complete Click Chemistry product portfolio and find more information at **www.click-chemistry.net**

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