

Product Information

30700 Atto 647 Biotin

Application

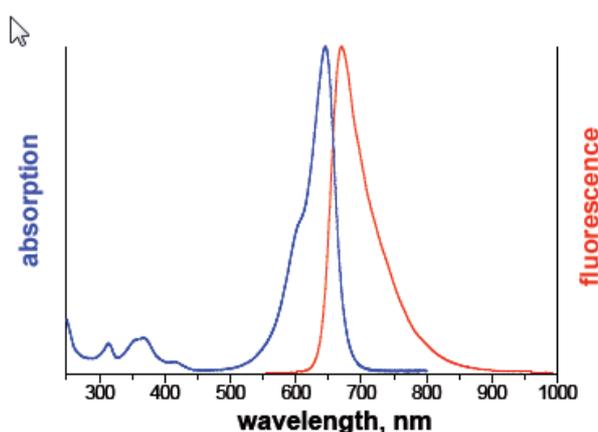
Atto 647 belongs to a new generation of fluorescent labels for the red spectral region. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high photostability, good water solubility, and very little triplet formation. Atto 647 is a zwitterionic dye with a net electrical charge of zero. Atto 647 is a pH sensitive product. While practically stable up to pH 8.5, it slowly degrades at higher pH.

Biotin conjugates can be used in applications like ELISA or immuno-histochemistry, in situ hybridization, flow cytometry and others, to identify streptavidin, avidin, or extravidin-conjugates.

Product Description

MW	1219 g/mol
λ_{abs}	645 nm
ϵ_{max}	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	669 nm
η_{fl}	20 %
τ_{fl}	2.4 ns
CF ₂₆₀	0.08
CF ₂₈₀	0.04

Optical data of the carboxy derivative (in water)



Storage: Store at -20°C and protected from light.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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