

93606 Atto 647N-Biotin

Application

Atto 647N 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, excellent fluorescence quantum yield, high photostability, excellent ozone resistance, good solubility, and very little triplet formation. Atto 647N is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of ⁺¹.

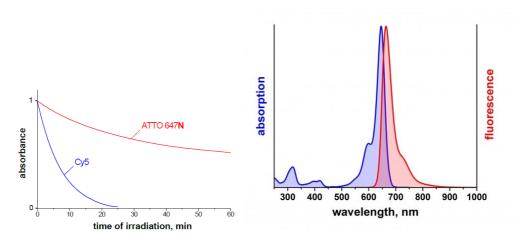
In common with most Atto-labels, absorption and fluorescence are independent of pH in the range of 2 to 11, used in typical applications. As supplied Atto 647N consists of a mixture of two isomers with practically identical absorption and fluorescence properties.

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	1057 g/mol
λ_{abs}	646 nm
ϵ_{max}	1.5 x 10 ⁵ M ⁻¹ cm ⁻¹
λ_{fl}	664 nm
η_{fl}	65 %
τ _{fl}	3.5 ns
CF ₂₆₀	0.04
CF ₂₈₀	0.03

Optical data of the carboxy derivative (in aqueous solution)



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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