

03927 Atto 594 Biotin

Application

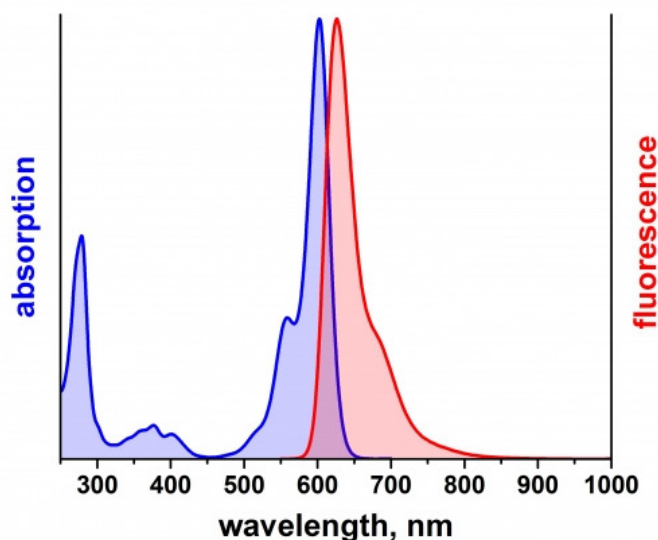
Atto 594 is a novel fluorescent label belonging to the class of Rhodamine dyes. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high thermal and photo-stability, excellent water solubility, and very little triplet formation. After coupling to a substrate Atto 594 carries a net electrical charge of -1.

The **biotin** derivative can be used as reagent for binding to proteins like avidin and streptavidin.

Product Description

MW	1456 g/mol
λ_{abs}	603 nm
ϵ_{max}	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	626 nm
η_{fl}	85 %
τ_{fl}	3.9 ns
CF ₂₆₀	0.22
CF ₂₈₀	0.50

Optical data of the carboxy derivative (in aqueous solution)



Storage: store at $\leq -20^\circ\text{C}$. Protect from long-term exposure to moisture and 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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