

Product Information

55819 Atto 680 Biotin

Application

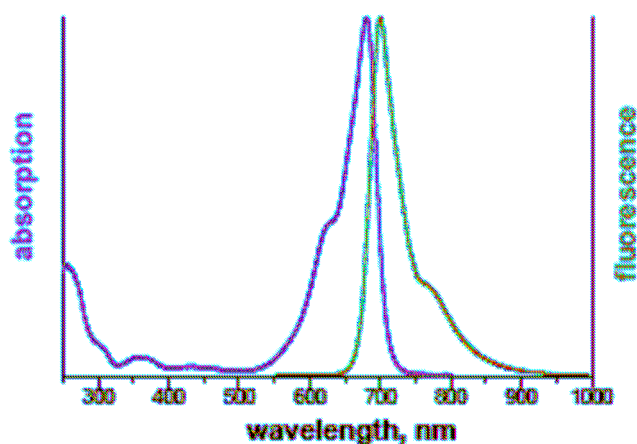
Atto 680 belongs to a new generation of fluorescent labels. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, good fluorescence quantum yield, excellent thermal and photo-stability, and very little triplet formation. Atto 680 is a zwitterionic dye with a net electrical charge of zero. The fluorescence is efficiently quenched by electron donors like guanine, tryptophan, etc.

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	1123 g/mol
λ_{abs}	680 nm
ϵ_{max}	$1.25 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	700 nm
η_{fl}	30 %
τ_{fl}	1.7 ns
CF_{260}	0.30
CF_{280}	0.17

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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