

92716 Atto 620

Application

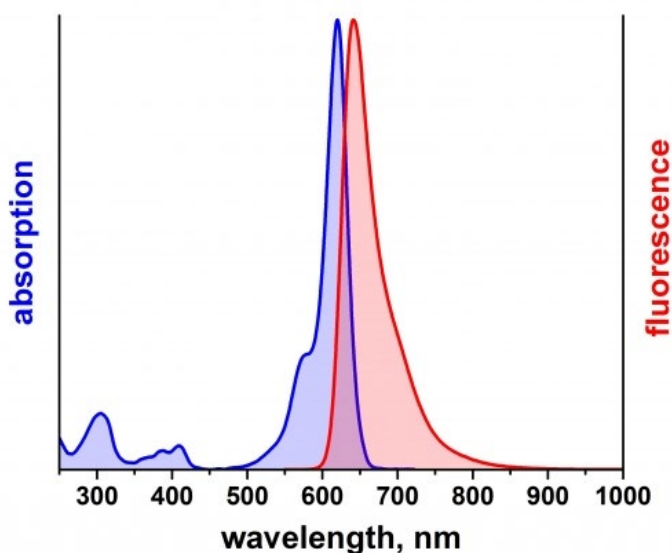
Atto 620 belongs to a new generation of fluorescent labels for the red spectral region. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, temperature dependent fluorescence, high thermal and photo-stability, and very little triplet formation. Atto 620 is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of $+1$.

The label is moderately hydrophilic. In common with most Atto-labels, absorption and fluorescence are independent of pH, at least in the range of pH 2 to 11, used in typical applications.

Product Description

MW	612 g/mol
λ_{abs}	620 nm
ϵ_{max}	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	642 nm
η_{fl}	50 %
τ_{fl}	2.9 ns
CF ₂₆₀	0.04
CF ₂₈₀	0.06

Optical data of the carboxy derivative (in aqueous solution)



Storage: protected from moisture and light at -20°C

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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