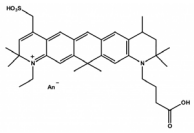
97875 Atto 647

Application

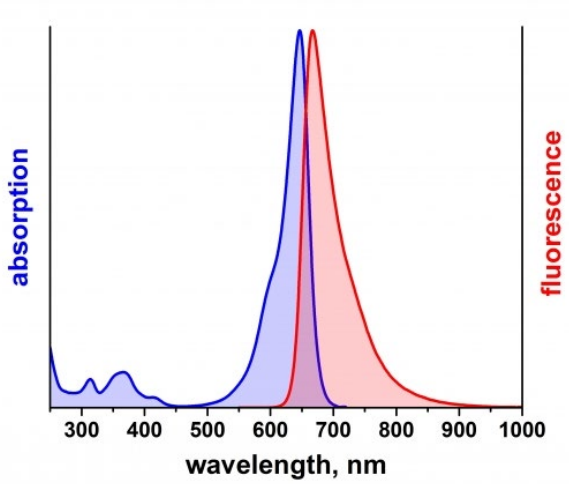
Atto 647 belongs to a new generation of fluorescent labels for the red spectral region. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high photostability, 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, it slowly degrades at higher pH.

Product Description

MW	593 g/mol
λ_{abs}	647 nm
ε_{max}	1.2 x 10^5 M^{-1} cm^{-1}
λ_{fl}	667 nm
η_{fl}	20 %
τ_{fl}	2.4 ns
CF_{260}	0.08
CF_{280}	0.04



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.