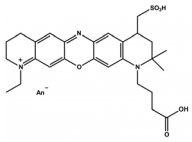
73948 Atto 655 iodoacetamide

Application

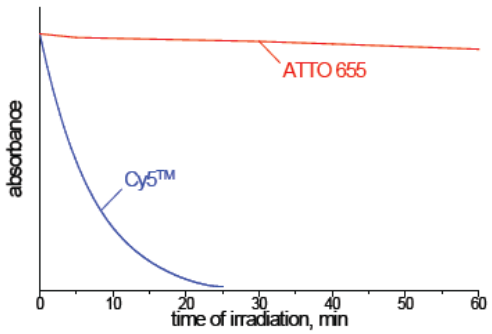
Atto 655 belongs to a new generation of fluorescent labels. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, good fluorescence quantum yield, excellent thermal and photo-stability, outstanding ozone resistance, very good water solubility, and very little triplet formation. Atto 655 is a zwitterionic dye with a net electrical charge of zero. The fluorescence is efficiently quenched by electron donors like guanine, tryptophan, etc.
The **iodoacetamide** derivative reacts, like the maleimide, with a sulfhydryl group forming a thioether bond. It is predominantly used for tagging cystein residues of proteins.

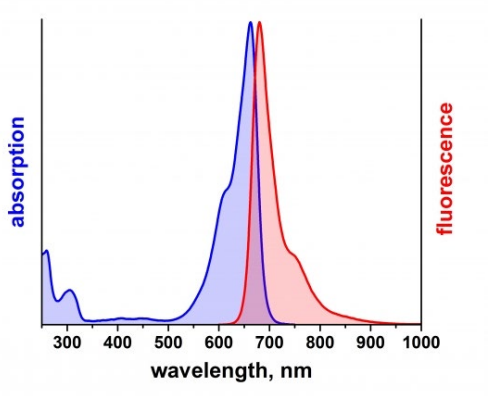
Product Description

MW	852 g/mol
λ_{abs}	663 nm
ε_{max}	1.25 x 10^5 M^{-1} cm^{-1}
λ_{fl}	680 nm
η_{fl}	30 %
τ_{fl}	1.8 ns
CF_{260}	0.24
CF_{280}	0.08



Optical data of the carboxy derivative (in aqueous solution)





Storage: store at ≤ -20°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.