68652 Atto 633 iodoacetamide

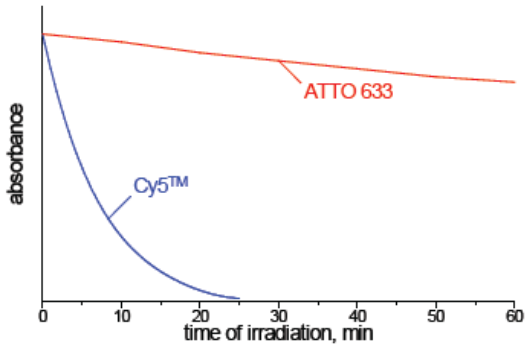
Application

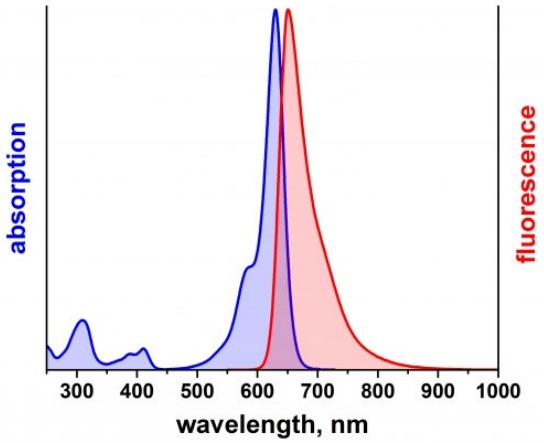
Atto 633 belongs to a new generation of fluorescent labels for the red spectral region. The dye is designed for application in the area of life science, e.g. labelling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high photostability, good water solubility, and very little triplet formation.
Atto 633 is a cationic dye. After coupling to a substrate the dye carries a net electrical charge of $^{+1}$. 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.
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	876 g/mol
λ_{abs}	630 nm
ε_{max}	1.3 x 10^5 M^{-1} cm^{-1}
λ_{fl}	651 nm
η_{fl}	64 %
τ_{fl}	3.3 ns
CF_{260}	0.04
CF_{280}	0.05

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.