

39271 Atto 550 iodoacetamide

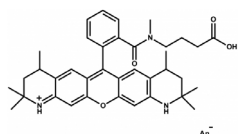
Atto 550 is a novel fluorescent label related to the well-known dye Rhodamine 6G. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high thermal and photo-stability, and very little triplet formation. The dye is highly suitable for single-molecule detection applications and high-resolution microscopy.

Atto 550 is a cationic dye (charge $+1$). As supplied, Atto 550 consists of three isomers with identical absorption and fluorescence.

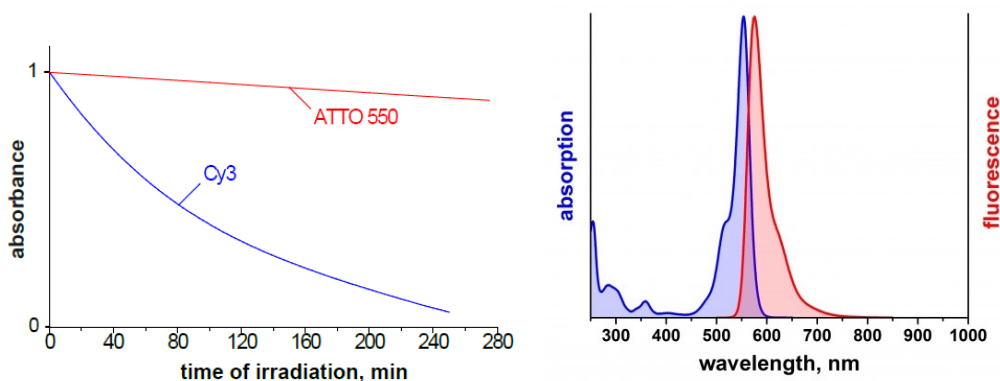
The **iodoacetamide** derivative reacts, like the maleimide, with a sulfhydryl group forming a thioether bond. It is predominantly used for tagging cystein residues of proteins.

Product Description

MW	918 g/mol
λ_{abs}	554 nm
ϵ_{max}	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	576 nm
η_{fl}	80 %
τ_{fl}	3.6 ns
CF ₂₆₀	0.23
CF ₂₈₀	0.10



Optical data of the carboxy derivative (in aqueous solution)



Storage: protected from 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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