

Product Information

59829 Atto 594 iodoacetamide

Application

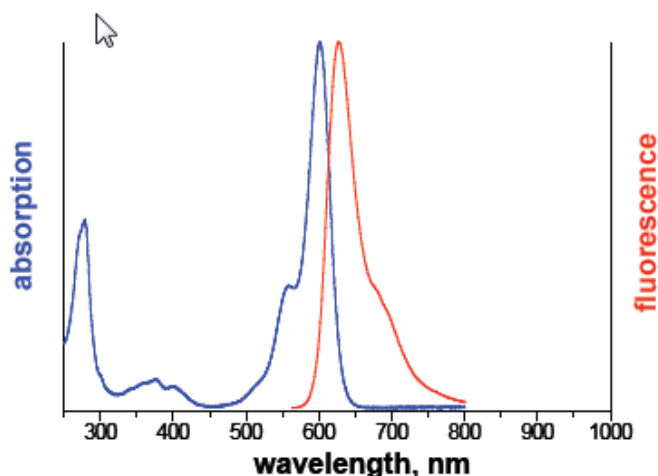
Atto 594 is a novel fluorescent label belonging to the class of Rhodamine dyes. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high thermal and photo-stability, excellent water solubility, and very little triplet formation. After coupling to a substrate Atto 594 carries a net electrical charge of -1.

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	1129 g/mol
λ_{abs}	601 nm
ϵ_{max}	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{fl}	627 nm
η_{fl}	85 %
τ_{fl}	3.9 ns
CF_{260}	0.26
CF_{280}	0.51

Optical data of the carboxy derivative (in water)



Storage: store at $\leq -20^\circ\text{C}$. 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.