

## 52986 Atto 594 alkyne

### Application

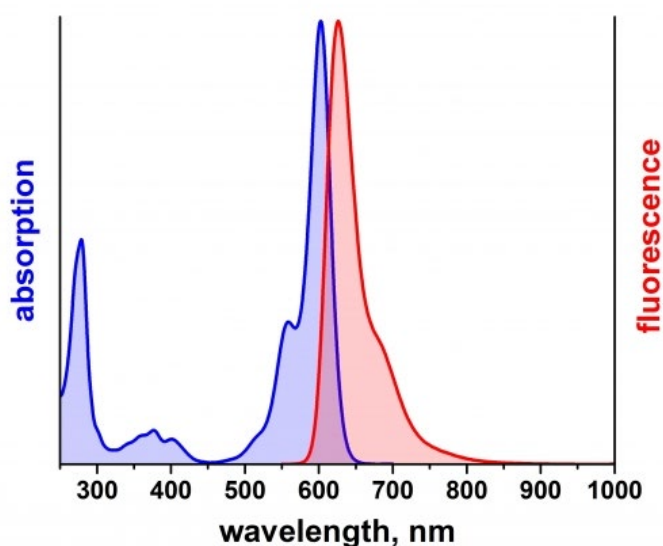
Atto 594 is a novel fluorescent label belonging to the class of Rhodamine dyes. The dye is designed for application in the area of life science, e.g. labeling of DNA, RNA or proteins. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high thermal and photo-stability,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

The **alkyne** modification is used in the Huisgen reaction ("Click Chemistry").

### Product Description

MW	956 g/mol
$\lambda_{\text{abs}}$	603 nm
$\epsilon_{\text{max}}$	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
$\lambda_{\text{fl}}$	626 nm
$\eta_{\text{fl}}$	85 %
$\tau_{\text{fl}}$	3.9 ns
CF <sub>260</sub>	0.22
CF <sub>280</sub>	0.50

### Optical data of the carboxy derivative (in aqueous solution)



**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

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