

## 70425 Atto 590

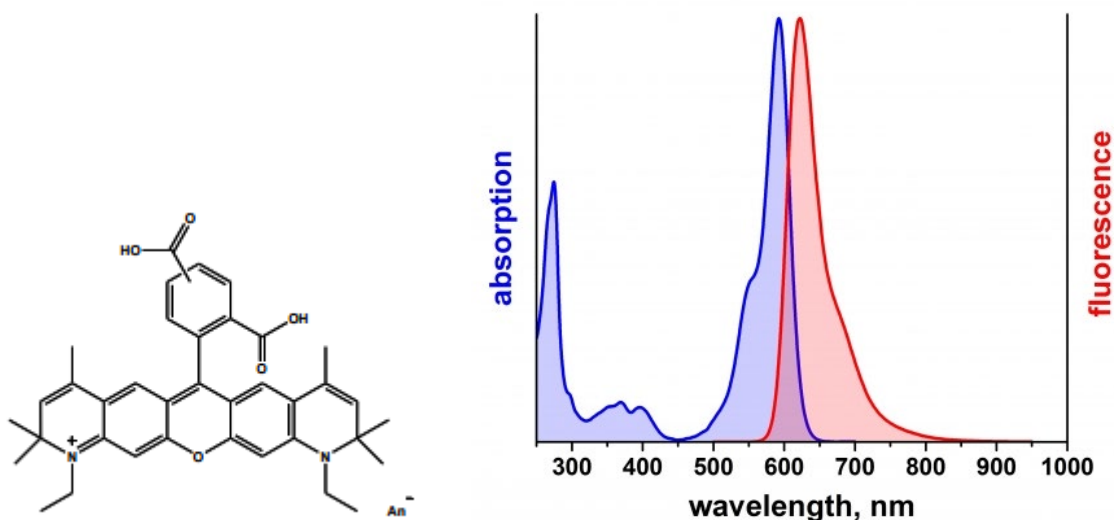
### Application

Atto 590 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, and very little triplet formation. The dye is highly suitable for single-molecule detection applications and high-resolution microscopy. As supplied, Atto 590 consists of a mixture of two isomers with practically identical absorption and fluorescence.

### Product Description

MW	691 g/mol
$\lambda_{\text{abs}}$	593 nm
$\epsilon_{\text{max}}$	$1.2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
$\lambda_{\text{fl}}$	622 nm
$\eta_{\text{fl}}$	80 %
$\tau_{\text{fl}}$	3.7 ns
$\text{CF}_{260}$	0.39
$\text{CF}_{280}$	0.43

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



**Storage:** protected from moisture and 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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