

## 52595 Atto 514

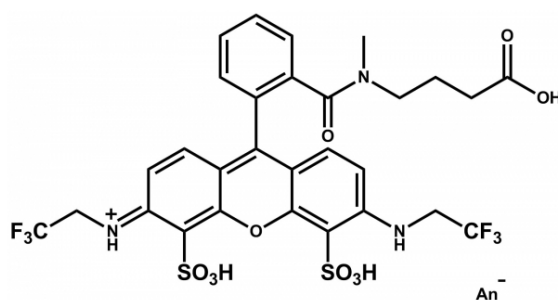
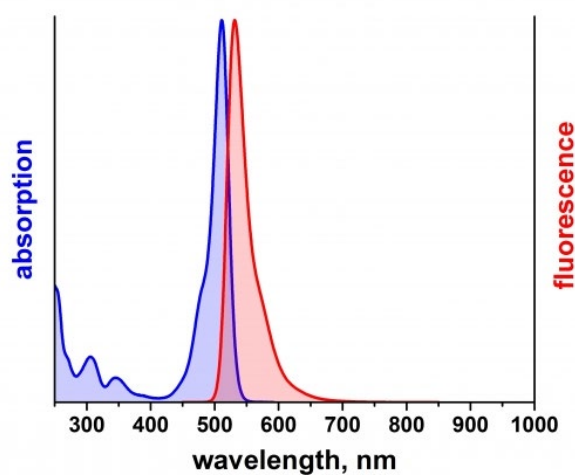
### Application

Atto 514 is a new hydrophilic fluorescent label with excellent water solubility. The dye exhibits strong absorption, high fluorescence quantum yield and exceptional thermal and photo-stability. Thus Atto 514 is highly suitable for single-molecule detection applications and high-resolution microscopy such as PALM, dSTORM, STED etc. Additionally the dye highly qualifies to be applied in flow cytometry (FACS), fluorescence in-situ hybridization (FISH) and many more. The fluorescence is excited most efficiently in the range 510 - 535 nm. A suitable source of excitation is the 514 nm line of the Argon-Ion laser.

### Product Description

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| MW                      | 868 g/mol                                         |
| $\lambda_{\text{abs}}$  | 511 nm                                            |
| $\epsilon_{\text{max}}$ | $1.15 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$ |
| $\lambda_{\text{fl}}$   | 532 nm                                            |
| $\eta_{\text{fl}}$      | 85 %                                              |
| $\tau_{\text{fl}}$      | 3.9 ns                                            |
| CF <sub>260</sub>       | 0.21                                              |
| CF <sub>280</sub>       | 0.07                                              |

### 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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