

## 80758 Atto 514 alkyne

### Application

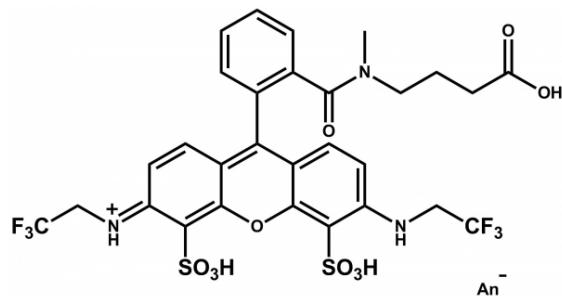
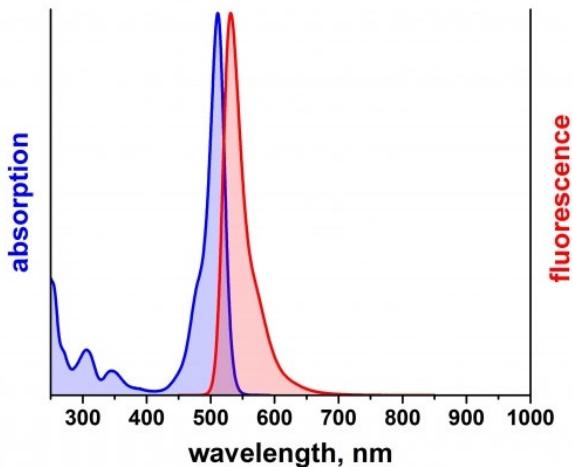
Atto 514 is a new hydrophilic fluorescent label with excellent water solubility. The dye exhibits strong absorption, high fluorescence quantum yield and exceptional thermal and photo-stability. Thus Atto 514 is highly suitable for single-molecule detection applications and high-resolution microscopy 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.

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

### Product Description

MW	905 g/mol
$\lambda_{\text{abs}}$	511 nm
$\varepsilon_{\text{max}}$	$1.15 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
$\lambda_{\text{fl}}$	532 nm
$\eta_{\text{fl}}$	85 %
$\tau_{\text{fl}}$	3.9 ns
$\text{CF}_{260}$	0.21
$\text{CF}_{280}$	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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