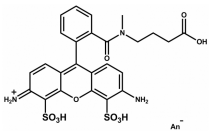
74417 Atto 488 amine

Application

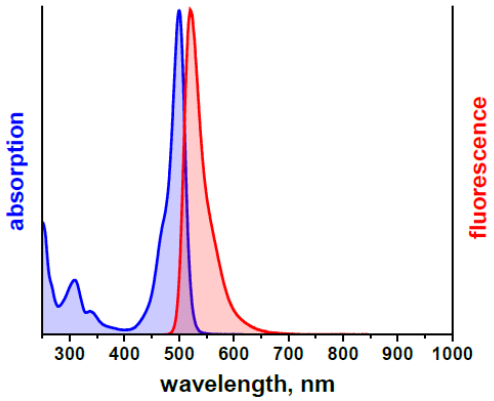
Atto 488 is a new hydrophilic fluorescent label with excellent water solubility. The dye exhibits strong absorption, high fluorescence quantum yield and exceptional thermal and photo-stability. Thus Atto 488 is highly suitable for single-molecule detection applications and high-resolution microscopy 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 480 - 515 nm. A suitable source of excitation is the 488 nm line of the Argon-Ion laser.
The **amine** derivative may be used for reactions with activated carboxy-groups like NHS-esters, TFP-esters etc.

Product Description

MW	860 g/mol
λ_{abs}	500 nm
ε_{max}	9.0 x 10^4 M^{-1} cm^{-1}
λ_{fl}	520 nm
η_{fl}	80 %
τ_{fl}	4.1 ns
CF_{260}	0.22
CF_{280}	0.09



Optical data of the carboxy derivative (in aqueous solution)



Storage: Store at –20°C and protected from 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.