

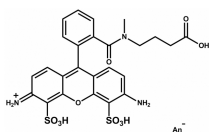
41051 Atto 488

Application

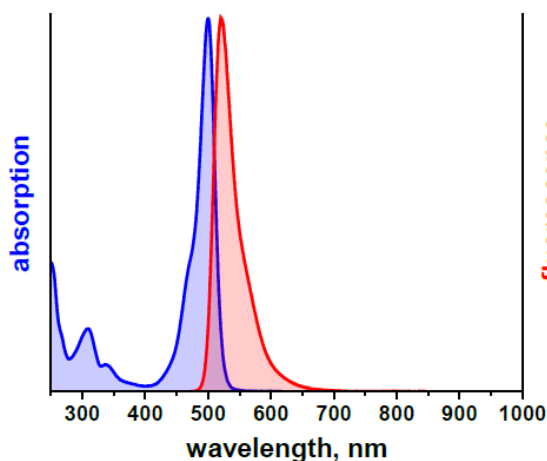
Atto 488 is a new hydrophilic fluorescent label with excellent water solubility. The dye exhibits strong absorption, high fluorescence quantum yield and exceptional thermal and photo-stability. Thus Atto 488 is highly suitable for single-molecule detection applications and high-resolution microscopy 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.

Product Description

| | |
|-------------------------|--|
| MW | 804 g/mol |
| λ_{abs} | 500 nm |
| ϵ_{max} | $9.0 \times 10^4 \text{ M}^{-1} \text{ cm}^{-1}$ |
| 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.

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