06699 Atto 532

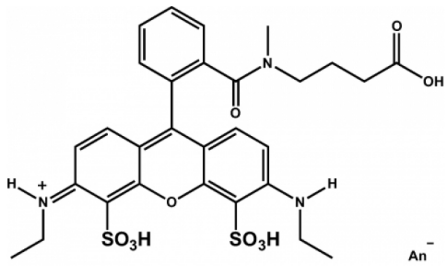
Application

Atto 532 is a fluorescent label related to the well-known dye Rhodamine 6G. Characteristic features of the label are strong absorption, high fluorescence quantum yield, high photostability, and excellent water solubility. Thus Atto 532 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 515 - 545 nm.
A suitable excitation source for Atto 532 is the 532 nm output of the frequency-doubled Nd:YAG laser.

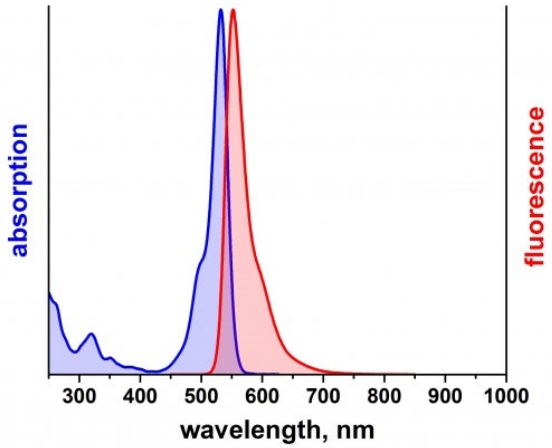
Product Description

MW	765 g/mol
λ_{abs}	532 nm
ε_{max}	1.15 x 10^5 M^{-1} cm^{-1}
λ_{fl}	552 nm
η_{fl}	90 %
τ_{fl}	3.8 ns
CF_{260}	0.20
CF_{280}	0.09

Optical data of the carboxy derivative (in aqueous solution)



Structure of free acid



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.