55212 Phalloidin Atto Rho6G

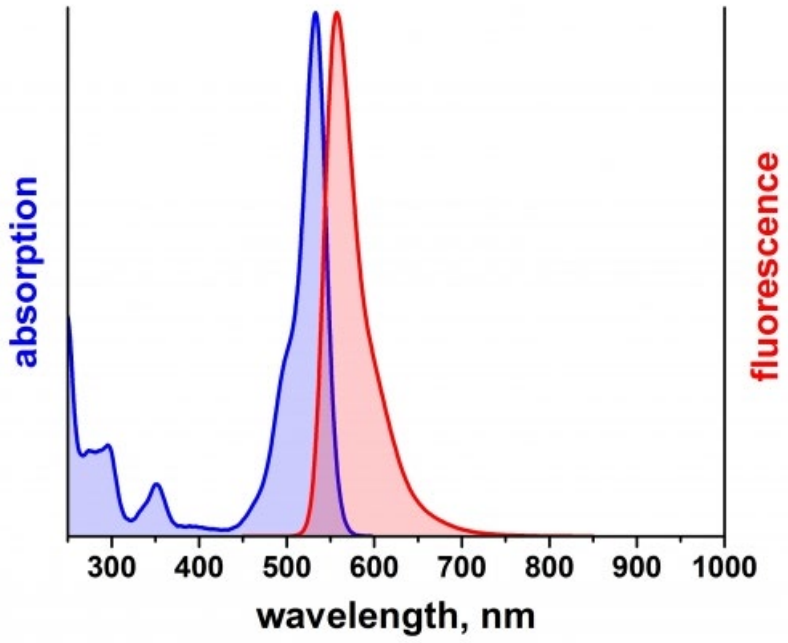
Application

Atto Rho6G is a new rhodamine dye, based on the well-known laser dye Rhodamine 6G. The new label is functionalized for coupling to biomolecules such as DNA, RNA or proteins. Atto Rho6G shows strong absorption, extraordinary high fluorescence quantum yield, high thermal and photo-stability, and very little triplet formation. The dye is highly suitable for single-molecule detection applications and high-resolution microscopy.
After coupling to a substrate Atto Rho6G carries a net electric charge of $^{+1}$. The label is moderately hydrophilic.

Product Description

MW	1398 g/mol
λ_{abs}	533 nm
ε_{max}	1.15 x 10^5 M^{-1} cm^{-1}
λ_{fl}	557 nm
η_{fl}	90 %
τ_{fl}	4.1 ns
CF_{260}	0.19
CF_{280}	0.16

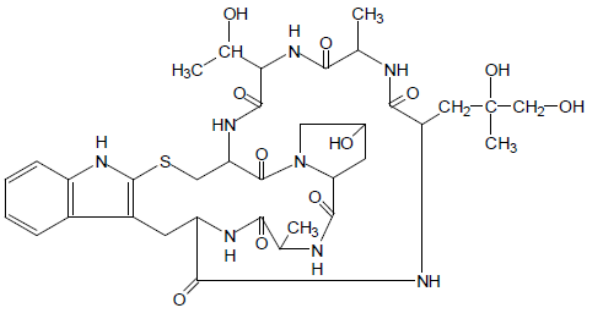
Optical data of the carboxy derivative (in aqueous solution)



Storage: store at ≤ -20°C. Protect from long-term exposure to moisture and light.

Properties of Phalloidin:

Molecular formula: $C_{35}H_{48}N_8O_{11}S$
Molecular weight: 788.9 (anhydrous)
Extinction Coefficient: $E^{1\%}$ = 0.597 (295 nm in water)



Staining procedure:

To prepare a stock solution of the phalloidin-conjugate it is recommended dissolving the sample in 1 ml of methanol.

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.