

55212 Phalloidin Atto Rho6G

Application

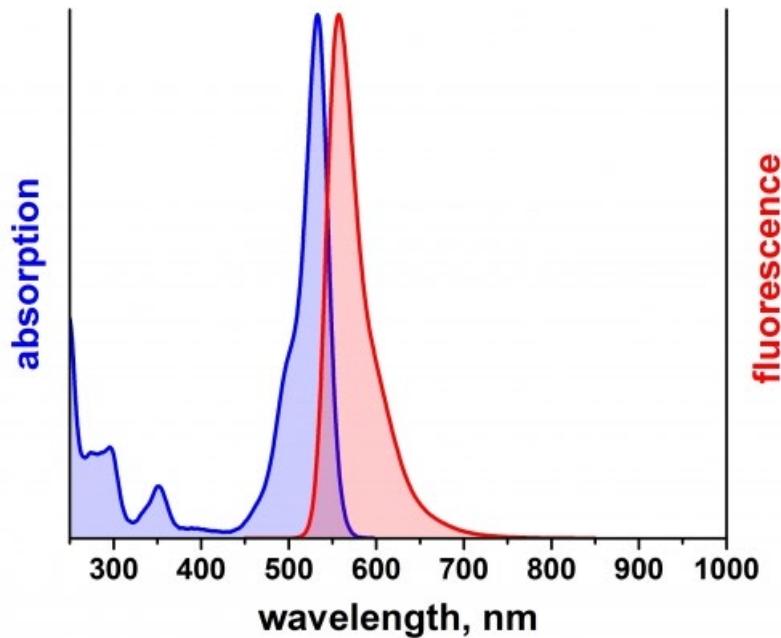
Atto Rho6G is a new rhodamine dye, based on the well-known laser dye Rhodamine 6G. The new label is functionalized for coupling to biomolecules such as DNA, RNA or proteins. Atto Rho6G shows strong absorption, extraordinary high fluorescence quantum yield, high thermal and photo-stability, and very little 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}	$1.15 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
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 $\leq -20^{\circ}\text{C}$. Protect from long-term exposure to moisture and light.

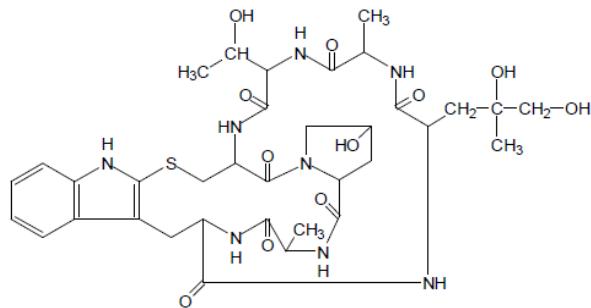


Properties of Phalloidin:

Molecular formula: C₃₅H₄₈N₈O₁₁S

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.

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. Detailed information on trademarks is available via publicly accessible resources.

© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

