

88821 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.

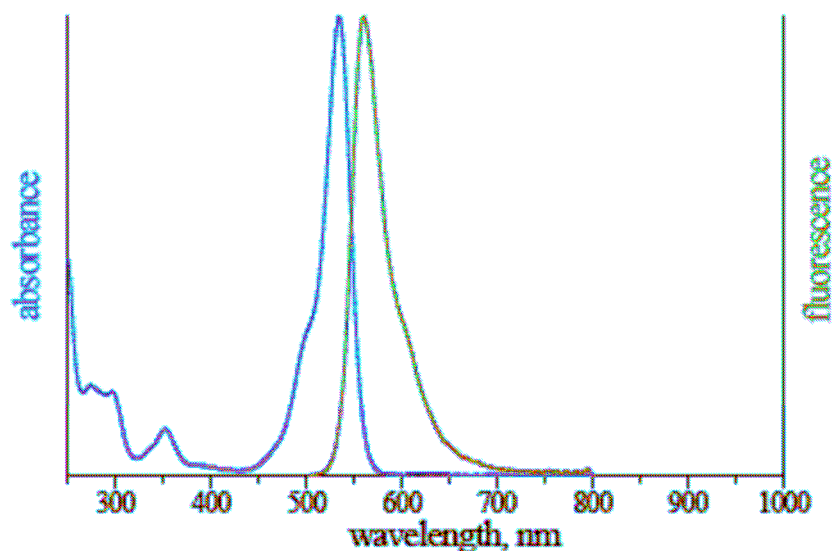
After coupling to a substrate Atto Rho6G carries a net electric charge of +1.

The label is moderately hydrophilic

Product Description

MW	614 g/mol
ϵ_{\max}	$1.15 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$
λ_{ex}	535 nm
λ_{fl}	560 nm
η_{fl}	94 %
τ_{fl}	4.1 ns
CF ₂₆₀	0.22
CF ₂₈₀	0.19

Optical data of the carboxy derivative (in water)



Storage: store at $\leq -20^\circ\text{C}$. Protect from moisture and light.