

UGO Rho6G NHS ester [equivalent to ATTO Rho6G NHS ester] Catalog ID: 110902

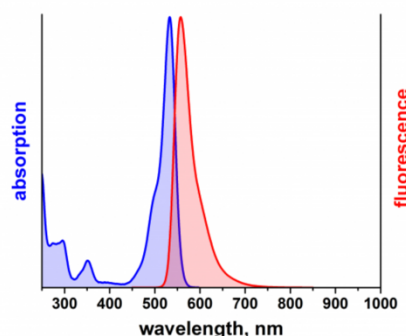
Revised: 2025-01-31

Description

UGO Rho6G is a new rhodamine dye based on the well-known laser dye Rhodamine 6G. This fluorescent label is functionalized for coupling to biomolecules such as DNA, RNA, or proteins. UGO Rho6G exhibits strong absorption, an exceptionally high fluorescence quantum yield, excellent thermal and photostability, and minimal triplet formation. These properties make it highly suitable for single-molecule detection and high-resolution microscopy applications. After coupling to a substrate, UGO Rho6G carries a net electric charge of +1 and is moderately hydrophilic.

Chemical Properties

| | |
|---|----------------------|
| CAS number | NA |
| Formula | NA |
| Molecular Weight (M+) | 611 |
| HPLC Purity | ≥95% |
| λ_{abs} (nm) | 533 |
| ϵ_{max} (M ⁻¹ cm ⁻¹) | 1.15×10 ⁵ |
| λ_{fl} (nm) | 557 |
| η_{fl} | 94% |
| τ_{fl} (ns) | 4.1 |
| CF ₂₆₀ = $\epsilon_{260}/\epsilon_{\text{max}}$ | 0.19 |
| CF ₂₈₀ = $\epsilon_{280}/\epsilon_{\text{max}}$ | 0.16 |



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, UGO NHS-esters are stable for at least 3 years.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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