

UGO 594 NHS ester [equivalent to ATTO 594 NHS ester]

Catalog ID: 111902

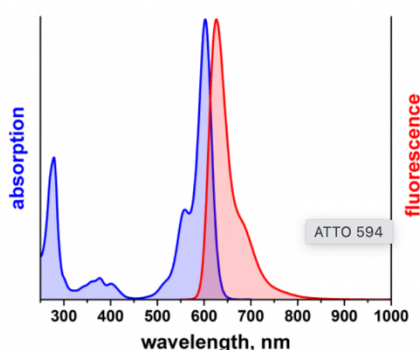
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Description

UGO 594 is a novel fluorescent marker based on the rhodamine structure. It features strong absorption, a very high fluorescence quantum yield, excellent thermal and photochemical stability, and outstanding water solubility. UGO 594 is particularly suitable for single-molecule detection and high-resolution microscopy techniques such as PALM, dSTORM, and STED. The dye is highly hydrophilic and water-soluble. After coupling to a substrate, it carries a single negative charge. Efficient fluorescence excitation occurs within the 580–615 nm wavelength range.

Chemical Properties

CAS number	NA
Formula	NA
Molecular Weight (M+)	903
HPLC Purity	≥95%
λ_{abs} (nm)	603
ϵ_{max} (M ⁻¹ cm ⁻¹)	1.2×10 ⁵
λ_{fl} (nm)	626
η_{fl}	85%
τ_{fl} (ns)	3.9
CF ₂₆₀ = $\epsilon_{260}/\epsilon_{\text{max}}$	0.22
CF ₂₈₀ = $\epsilon_{280}/\epsilon_{\text{max}}$	0.50



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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