

UGO 532 NHS ester [equivalent to ATTO 532 NHS ester]

Catalog ID: 110802

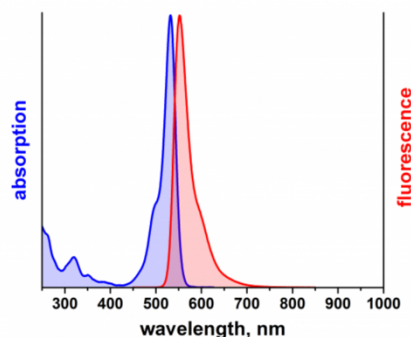
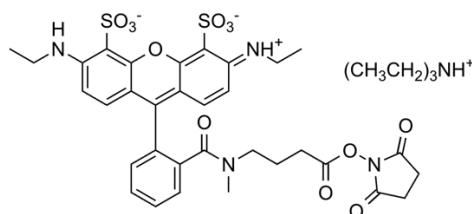
Revised: 2025-01-31

Description

UGO 532 is a fluorescent label related to the well-known dye Rhodamine 6G. It features strong absorption, high fluorescence quantum yield, excellent thermal and photostability, and outstanding water solubility. These properties make UGO 532 highly suitable for single-molecule detection and high-resolution microscopy techniques such as PALM, dSTORM, SIM, and STED. Additionally, the dye is ideal for applications in flow cytometry (FACS), fluorescence in situ hybridization (FISH), and more. Its fluorescence is most efficiently excited within the 515–545 nm range, with the 532 nm output of a frequency-doubled Nd:YAG laser serving as an optimal excitation source.

Chemical Properties

CAS number	924660-19-5
Formula	C ₃₃ H ₃₄ N ₄ O ₁₂ S ₂
Molecular Weight (M+)	742.77
HPLC Purity	≥95%
λ _{abs} (nm)	532
ε _{max} (M ⁻¹ cm ⁻¹)	1.15×10 ⁵
λ _{fl} (nm)	552
η _{fl}	90%
τ _{fl} (ns)	3.8
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	0.20
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	0.09



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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