

Product Data Sheet



UGO 488 NHS ester [equivalent to ATTO 488 NHS ester]

Catalog ID: 110402

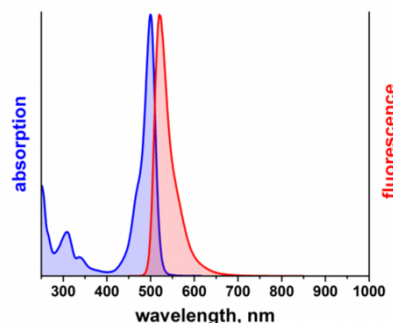
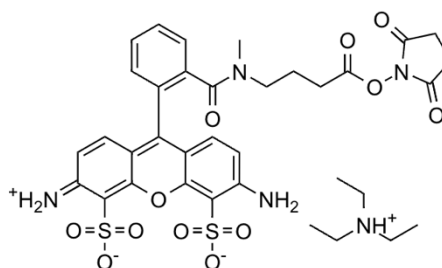
Revised: 2025-01-31

Description

UGO 488 is a new hydrophilic fluorescent label with outstanding water solubility. The dye features strong absorption, high fluorescence quantum yield, and exceptional thermal and photostability. This makes UGO 488 highly suitable for single-molecule detection and high-resolution microscopy techniques such as SIM and STED. Additionally, the dye is well-suited for applications in flow cytometry (FACS), fluorescence in situ hybridization (FISH), and more. Its fluorescence is most efficiently excited within the 480–515 nm range, with the 488 nm line of the Argon-Ion laser being an ideal excitation source.

Chemical Properties

CAS number	863772-22-9
Formula	C ₂₉ H ₂₆ N ₄ O ₁₂ S ₂
Molecular Weight (M ⁺)	686.66
HPLC Purity	≥95%
λ _{abs} (nm)	500
ε _{max} (M ⁻¹ cm ⁻¹)	9.0×10 ⁴
λ _{fl} (nm)	520
η _{fl}	80%
τ _{fl} (ns)	4.1
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	0.22
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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