

UGO 700 NHS ester [equivalent to ATTO 700 NHS ester]

Catalog ID: 113002

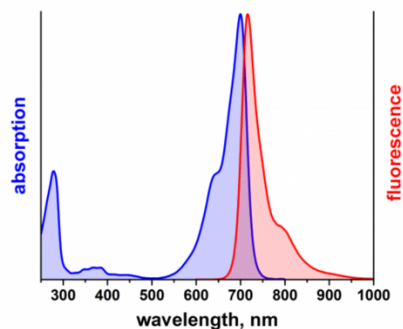
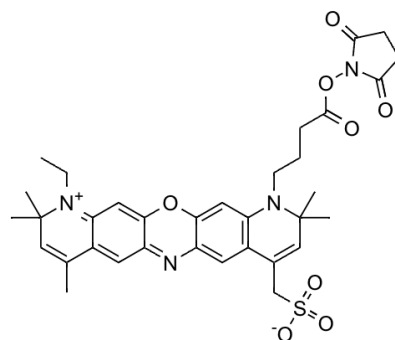
Revised: 2025-01-31

Description

UGO 700 is a near-infrared fluorescent dye distinguished by its strong absorption, high photo and thermal stability, and excellent aqueous solubility. It is optimally excited within the 670-715 nm wavelength range. As a zwitterionic compound, UGO 700 remains electrically neutral when conjugated to biomolecules or other substrates. Its strong electron-accepting properties enable efficient fluorescence quenching by electron donors such as guanine and tryptophan. These characteristics make UGO 700 highly suitable for precision applications, including single-molecule detection and super-resolution microscopy techniques like PALM, dSTORM, and STED. Additionally, UGO 700 is compatible with flow cytometry (FACS), fluorescence in situ hybridization (FISH), and a wide range of other biological assays, solidifying its role as a versatile and indispensable tool in advanced fluorescence-based research.

Chemical Properties

CAS number	NA
Formula	C ₃₄ H ₃₈ N ₄ O ₈ S
Molecular Weight (M+)	663
HPLC Purity	≥95%
λ _{abs} (nm)	700
ε _{max} (M ⁻¹ cm ⁻¹)	1.2×10 ⁵
λ _{fl} (nm)	716
η _{fl}	25%
τ _{fl} (ns)	1.6
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	0.26
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	0.41



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

Shenzhen U-genes Biotechnology Co., Ltd.

Suite 201, Building 3, No.2 Baolong 4th Road, Shenzhen, China, 518116

Email: contact@u-genes.com Tel.: +86 755 84644912

www.u-genes.com