

Product Data Sheet



UGA 700 NHS ester [equivalent to Alexa Fluor 700 NHS ester] Catalog ID: 121502

Revised: 2025-01-31

Description

UGA 700 is a bright and photostable near-IR dye that can be excited using a xenon-arc lamp, far-red diode lasers, or dye-pumped lasers operating in the 675–700 nm range. It is designed for consistent signal generation in imaging and flow cytometry, offering water solubility and stability across a pH range of 4 to 10. The fluorescence of this long-wavelength UGA dye is not visible to the human eye but is easily detected by most imaging systems. In addition to reactive dye formulations, UGA 700 dye is available conjugated to a variety of antibodies, peptides, proteins, tracers, and amplification substrates, making it highly effective for cellular labeling and detection.

Chemical Properties

CAS number	NA
Formula	NA
Molecular Weight	~1400
HPLC Purity	≥95%
λ_{abs} (nm)	702
ϵ_{max} ($\text{M}^{-1} \text{cm}^{-1}$)	1.92×10^5
λ_{fl} (nm)	723
$\text{CF}_{260} = \epsilon_{260} / \epsilon_{\text{max}}$	0.00
$\text{CF}_{280} = \epsilon_{280} / \epsilon_{\text{max}}$	0.07

Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, UGA NHS-esters are stable for at least 1 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