

Product Data Sheet



Sulfo-Cyanine 7 NHS ester [equivalent to Cy7® NHS ester]

Catalog ID: 151101

Revised: 2025-01-31

Description

Water-soluble near-infrared dye sulfo-Cyanine7 is an amine-reactive succinimide ester.

Sulfo-Cyanine7 is an enhanced analog of the Cy7® fluorophore, offering a 20% improvement in quantum yield and greater photostability. This fluorescent dye is particularly well-suited for near-infrared (NIR) imaging applications.

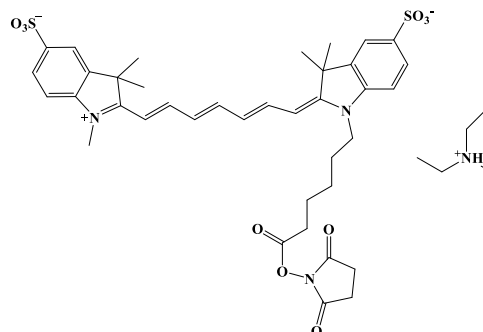
Near-infrared fluorescent imaging leverages the transparency of biological tissues within a specific wavelength range. This non-destructive technique enables the monitoring of the distribution of labeled molecules in live organisms.

The Sulfo-Cyanine7 NHS ester reagent simplifies the preparation of Sulfo-Cyanine7-labeled biomolecules, such as proteins. These dye-labeled molecules can be used in a variety of research and drug development experiments.

This reagent is highly water-soluble, making it ideal for labeling sensitive proteins and those prone to denaturation. For applications requiring organic phase solubility, the non-sulfonated Cyanine7 NHS ester is also available.

Chemical Properties

CAS number	477908-53-5
Formula	C ₄₄ H ₅₈ N ₄ O ₁₀ S ₂
Molecular Weight	867.09
HPLC Purity	≥95%
λ _{abs} (nm)	756
ε _{max} (M ⁻¹ cm ⁻¹)	2.5×10 ⁵
λ _{fl} (nm)	779
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	0.05
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	0.036



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Sulfo-Cyanine 7 NHS ester is stable for at least 1 year.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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