

Product Data Sheet



Cyanine 5.5 NHS ester [Analog to Cy5.5® NHS ester]

Catalog ID: 150801

Revised: 2025-01-31

Description

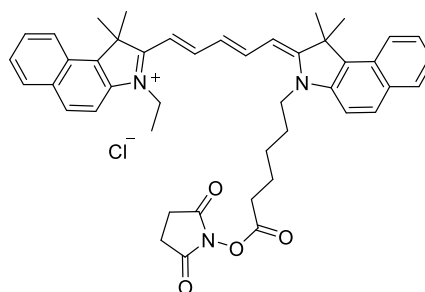
Cyanine 5.5 NHS ester is a reactive dye designed for labeling amino groups in peptides, proteins, and oligonucleotides, functioning as an analog of Cy5.5® NHS ester.

Cy5.5 emits in the far-red to near-infrared range, making it an excellent choice for fluorescence measurements where reducing background fluorescence is essential. It is also highly suitable for in vivo near-infrared (NIR) imaging applications.

This reagent serves as a reliable replacement for NHS esters of Cy5.5® and DyLight 680.

Chemical Properties

CAS number	NA
Formula	C ₄₅ H ₄₈ ClN ₃ O ₄
Molecular Weight	730.35
HPLC Purity	≥95%
λ _{abs} (nm)	684
ε _{max} (M ⁻¹ cm ⁻¹)	1.98×10 ⁵
λ _{fl} (nm)	710
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	NA
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	NA



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Cyanine 5.5 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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