

# Product Data Sheet



## Cyanine 7.5 NHS ester [Analog to Cy7.5® NHS ester]

Catalog ID: 151201

Revised: 2025-01-31

### Description

Cyanine7.5 is a near-infrared (NIR) dye characterized by its exceptionally long-wave emission. This product is an amine-reactive derivative of the fluorophore.

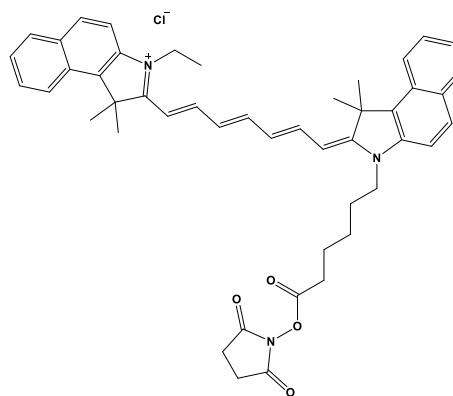
Near-infrared radiation easily penetrates tissues, making it highly suitable for in vivo imaging applications.

This product can be used to label various amine-containing biomolecules, such as proteins and peptides, enabling the tracking of their distribution within organisms using NIR imaging.

The enhanced rigidity of the central polymethine moiety increases the quantum yield by 20% compared to the parent structure of Cy7.5® NHS.

### Chemical Properties

CAS number	786620-92-6
Formula	C <sub>47</sub> H <sub>50</sub> ClN <sub>3</sub> O <sub>4</sub>
Molecular Weight	756.38
HPLC Purity	≥95%
λ <sub>abs</sub> (nm)	788
ε <sub>max</sub> (M <sup>-1</sup> cm <sup>-1</sup> )	2.23×10 <sup>5</sup>
λ <sub>fl</sub> (nm)	808
CF <sub>260</sub> = ε <sub>260</sub> /ε <sub>max</sub>	NA
CF <sub>280</sub> = ε <sub>280</sub> /ε <sub>max</sub>	NA



### Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Cyanine 7.5 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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