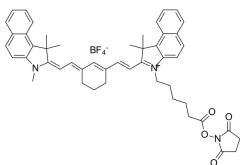


Cyanine 7.5 NHS ester (A270180)

Specifications:

Name:	Cyanine 7.5 NHS ester
Description:	Cyanine 7.5 is a NIR dye with very long-wave emission. This product is amine-reactive derivative of this fluorophore. Near infrared radiation readily penetrates tissues and can be used for imaging applications in vivo. This product can be used for the labeling of various biomolecules containing amine groups, such as proteins and peptides, to track their distribution in organism in vivo by NIR imaging. Increased rigidity of central polymethyne moiety allows to increase quantum yield by 20% compared to parent structure of Cy7.5® NHS.
Absorption Maxima:	788 nm
Extinction Coefficient:	223000 M ⁻¹ cm ⁻¹
Emission Maxima:	808 nm
CAS Number:	1469541-54-5, 1469278-04-3
Mass Spec M+ Shift after Conjugation:	630.4
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₄₉ H ₅₂ N ₃ BF ₄ O ₄
Molecular Weight:	833.76 kDa
Product Form:	Green powder.
Solubility:	Soluble in organic solvents (DMSO, DMF, dichloromethane). Low solubility in water.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

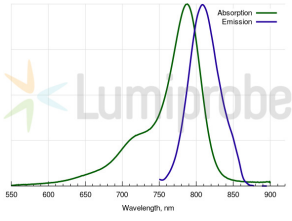
Images:



Cyanine 7.5 NHS ester structure.

Cyanine 7.5 NHS ester (A270180)

Images continued:



Cyanine 7.5 absorbance and emission spectra.