

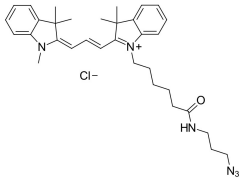
Cyanine 3 azide (A270140)

Specifications:

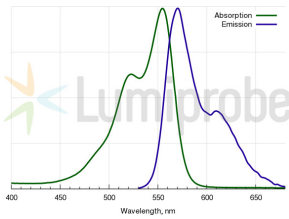
Name:	Cyanine 3 azide
Description:	Cyanine 3 dye azide for Click Chemistry, an analog of Cy3® azide. Cy3® is one of the most broadly used fluorophores which can be detected by various fluorometers, imagers, and microscopes. Due to inherently high extinction coefficient, Cyanine 3 is also easily detected by naked eye on gels, and in solution. This is non-sulfonated dye which requires organic co-solvent (DMF, DMSO, or other) for efficient labeling in water. Water-soluble versions of this reagent are also available. This product is a 10 mM solution in DMSO, which is ready to use. Cyanine 3 fluorescent properties are identical to Cy3®, and similar to Alexa Fluor 546, and DyLight 549.
Absorption Maxima:	555 nm
Extinction Coefficient:	150000 M-1cm-1
Emission Maxima:	570 nm
Fluorescence Quantum Yield:	0.31
CAS Number:	1167421-28-4
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.09
Purity:	95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C ₃₃ H ₄₃ N ₆ OCl
Molecular Weight:	575.19 kDa
Formulation:	Supplied in DMSO.
Product Form:	Red solution.
Solubility:	Soluble in organic solvents (DMF, DMSO, dichloromethane). Practically insoluble in water (40 mg/L = 60 uM).
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.

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Images:



Cyanine 3 azide structure.



Cyanine 3 absorbance and emission spectra.