

Cyanine 5.5 alkyne (A270149)

Specifications:

Name:	Cyanine 5.5 alkyne
Description:	Far red / near infrared dye alkyne for Click Chemistry labeling. Cyanine 5.5 is an analog of Cy5.5®, a popular fluorophore which has been widely used for various applications including intact organism imaging. This reagent can be conjugated with azido groups under mild copper catalyzed Click Chemistry conditions. This reagent is soluble in organic solvents, but mixtures of water with small percent of DMSO can be used for efficient conjugation. Cyanine 5.5 alkyne can also be used for the labeling of small molecules with this far red/NIR dye.
Absorption Maxima:	684 nm
Extinction Coefficient:	198000 M ⁻¹ cm ⁻¹
Emission Maxima:	710 nm
Fluorescence Quantum Yield:	0.2
CAS Number:	1628790-37-3
CF ₂₆₀ :	0.07
CF ₂₈₀ :	0.03
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₄₃ H ₄₆ CIN ₃ O
Molecular Weight:	656.30 kDa
Product Form:	Dark blue powder.
Solubility:	Good in organic solvents (DMF, DMSO, acetonitrile, DCM, alcohols). Practically insoluble in water (5.2 uM, 3.7 mg/L).
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

