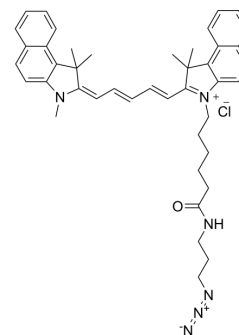


Cyanine 5.5 azide

Cat. No.:	HY-D1539
CAS No.:	1557136-25-0
Molecular Formula:	C ₄₃ H ₄₉ ClN ₆ O
Molecular Weight:	701.34
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (142.58 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.4258 mL	7.1292 mL	14.2584 mL	
5 mM	0.2852 mL	1.4258 mL	2.8517 mL	
10 mM	0.1426 mL	0.7129 mL	1.4258 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cyanine 5.5 azide (CY 5.5 azide) is a potent fluorescent dye. Cyanine 5.5 azide can label DNA. Cyanine 5.5 azide can be used for NIR live organism imaging. (λ_{ex} =684 nm, λ_{em} =710 nm)^{[1][2]}. Cyanine 5.5 azide is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

- [1]. Sun H, et, al. Zwitterionic Cross-Linked Biodegradable Nanocapsules for Cancer Imaging. Langmuir. 2019 Feb 5;35(5):1440-1449.
- [2]. Damaj MI, et, al. In vivo characterization of a novel inhibitor of CNS nicotinic receptors. Eur J Pharmacol. 2005 Oct 3;521(1-3):43-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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