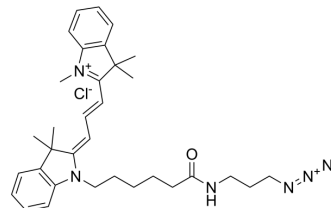


Cyanine3 azide chloride

Cat. No.:	HY-D1327
CAS No.:	1167421-28-4
Molecular Formula:	C ₃₃ H ₄₃ ClN ₆ O
Molecular Weight:	575.19
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (86.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
			1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.7386 mL	8.6928 mL	17.3856 mL
		5 mM	0.3477 mL	1.7386 mL	3.4771 mL
10 mM		0.1739 mL	0.8693 mL	1.7386 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	<p>Cyanine3 azide chloride, an analog of Cy3 azide, is a potent green fluorescent dye. Cyanine3 azide chloride uses click chemistry coupled with Alkyne-labeled proteins. Cyanine3 azide chloride can be detected by fluorometers, imagers, and microscopes. (λ_{ex}=684 nm, λ_{em}=710 nm)^{[1][2]}. Cyanine3 azide (chloride) 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.</p>
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REFERENCES

[1]. Kim SM, et, al. Phenotypic Discovery of an Antivirulence Agent against *Vibrio vulnificus* via Modulation of Quorum-Sensing Regulator SmcR. *ACS Infect Dis.* 2020 Nov 13;6(11):3076-3082.

[2]. Morimoto K, et, al. Triazine Probes Target Ascorbate Peroxidases in Plants. *Plant Physiol.* 2019 Aug;180(4):1848-1859.

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

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