



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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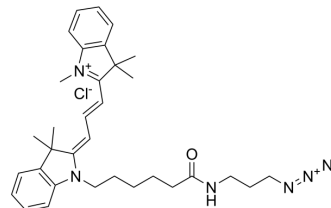
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## Cyanine3 azide chloride

<b>Cat. No.:</b>	HY-D1327
<b>CAS No.:</b>	1167421-28-4
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>43</sub> ClN <sub>6</sub> O
<b>Molecular Weight:</b>	575.19
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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

<b>In Vitro</b>	DMSO : 50 mg/mL (86.93 mM); Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	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.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	<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. (<math>\lambda_{ex}</math>=684 nm, <math>\lambda_{em}</math>=710 nm)<sup>[1][2]</sup>. 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

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[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.

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

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