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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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DBCO-PEG4-TAMRA

Cat. No.:	HY-D1070
CAS No.:	1895849-41-8
Molecular Formula:	C ₅₄ H ₅₇ N ₅ O ₁₀
Molecular Weight:	936.06
Target:	DNA Stain
Pathway:	Cell Cycle/DNA Damage
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 (53.42 mM; Need ultrasonic)																							
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.0683 mL</td> <td>5.3415 mL</td> <td>10.6831 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2137 mL</td> <td>1.0683 mL</td> <td>2.1366 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1068 mL</td> <td>0.5342 mL</td> <td>1.0683 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg						Preparing Stock Solutions	1 mM	1.0683 mL	5.3415 mL	10.6831 mL	5 mM	0.2137 mL	1.0683 mL	2.1366 mL	10 mM	0.1068 mL	0.5342 mL	1.0683 mL
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	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 (1.34 mM); Clear solution																							

BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-TAMRA is a PEG-based TAMRA dye and contains a DBCO group, which enables Click Chemistry. The TAMRA dye is a dye widely used in oligonucleotide labeling and automated DNA sequencing applications. DBCO-PEG4-TAMRA is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.
IC₅₀ & Target	TARMA Dye
In Vitro	Click chemistry refers to a group of reactions that are fast, simple to use, easy to purify, versatile, regiospecific, and give high product yields. Click chemistry reaction is suitable for cell marker and low concentration reaction with low toxicity. DBCO reacts with azide functionalized compounds or biomolecules without catalyst to form a stable triazole linkage, which is an ideal alternative to copper intolerant applications. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hein CD, et al. Click chemistry, a powerful tool for pharmaceutical sciences. Pharm Res. 2008 Oct;25(10):2216-30.

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

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