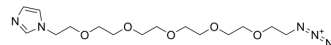


## Deg-1

<b>Cat. No.:</b>	HY-153665		
<b>CAS No.:</b>	2761446-55-1		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>27</sub> N <sub>5</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	357.41		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (279.79 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	1 mM	2.7979 mL	13.9895 mL	27.9791 mL
	5 mM	0.5596 mL	2.7979 mL	5.5958 mL
	10 mM	0.2798 mL	1.3990 mL	2.7979 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: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Deg-1 is a bifunctional probe with a cleavage group and a covalent binding group. Deg-1 covalently binds to the target nucleic acid, and serves as click-degrader to cleave a nucleic acid molecule. Deg-1 has potential to selectively cleave target nucleic acids in cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	DNA <sup>[1]</sup>

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## REFERENCES

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[1]. Bernardes G, et al. Method for targeted nucleic acid cleavage. World Intellectual Property Organization, WO2022034177 A1 2022-02-17.

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

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