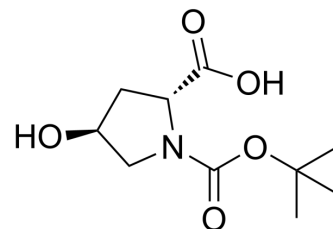


## (2R,4S)-1-(tert-Butoxycarbonyl)-4-hydroxypyrrolidine-2-carboxylic acid

<b>Cat. No.:</b>	HY-77593		
<b>CAS No.:</b>	147266-92-0		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>17</sub> NO <sub>5</sub>		
<b>Molecular Weight:</b>	231.25		
<b>Target:</b>	ADC Linker; PROTAC Linkers		
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related; PROTAC		
<b>Storage:</b>	Powder	-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 (432.43 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	4.3243 mL	21.6216 mL	43.2432 mL
	<b>5 mM</b>	0.8649 mL	4.3243 mL	8.6486 mL
	<b>10 mM</b>	0.4324 mL	2.1622 mL	4.3243 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 (10.81 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 (10.81 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (10.81 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	N-tert-Butoxycarbonyl-trans-4-hydroxy-D-proline is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). N-tert-Butoxycarbonyl-trans-4-hydroxy-D-proline is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs.
<b>IC<sub>50</sub> &amp; Target</b>	Non-cleavable
<b>In Vitro</b>	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker <sup>[1]</sup> .

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PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. *Nat Rev Drug Discov.* 2017;16(5):315-337.

[2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-985.

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

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