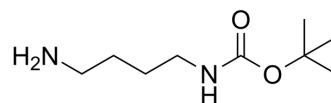


## NH<sub>2</sub>-C<sub>4</sub>-NH-Boc

Cat. No.:	HY-40178
CAS No.:	68076-36-8
Molecular Formula:	C <sub>9</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	188.27
Target:	PROTAC Linkers
Pathway:	PROTAC
Storage:	4°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 : 100 mg/mL (531.15 mM; Need ultrasonic)																					
	H <sub>2</sub> O : 100 mg/mL (531.15 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>5.3115 mL</td> <td>26.5576 mL</td> <td>53.1152 mL</td> </tr> <tr> <td>5 mM</td> <td>1.0623 mL</td> <td>5.3115 mL</td> <td>10.6230 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5312 mL</td> <td>2.6558 mL</td> <td>5.3115 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	5.3115 mL	26.5576 mL	53.1152 mL	5 mM	1.0623 mL	5.3115 mL	10.6230 mL	10 mM	0.5312 mL	2.6558 mL	5.3115 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: PBS Solubility: 100 mg/mL (531.15 mM); Clear solution; Need ultrasonic																					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution																					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution																					

### BIOLOGICAL ACTIVITY

Description	NH <sub>2</sub> -C <sub>4</sub> -NH-Boc (compound 15) is a PROTAC linker, which refers to the Alkyl/ether composition. NH <sub>2</sub> -C <sub>4</sub> -NH-Boc can be used in the synthesis of a series of PROTACs. 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>[1]</sup> .
IC <sub>50</sub> & Target	Alkyl/ether

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## REFERENCES

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[1]. Jiang F, et al. Discovery of novel small molecule induced selective degradation of the bromodomain and extra-terminal (BET) bromodomain protein BRD4 and BRD2 with cellular potencies. *Bioorg Med Chem*. 2020 Jan 1;28(1):115181.

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

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