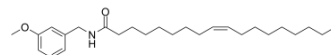


## N-Benzyleamide

<b>Cat. No.:</b>	HY-N6923
<b>CAS No.:</b>	883715-21-7
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>43</sub> NO <sub>2</sub>
<b>Molecular Weight:</b>	401.63
<b>Target:</b>	FAAH; Autophagy
<b>Pathway:</b>	Metabolic Enzyme/Protease; Neuronal Signaling; Autophagy
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (124.49 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent Concentration</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>		2.4899 mL	12.4493 mL	24.8985 mL
		<b>5 mM</b>		0.4980 mL	2.4899 mL	4.9797 mL
		<b>10 mM</b>		0.2490 mL	1.2449 mL	2.4899 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 (6.22 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 (6.22 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.22 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	N-Benzyleamide is a maccamide isolated from <i>Lepidium meyenii</i> (Maca). N-Benzyleamide irreversibly inhibits fatty acid amide hydrolase (FAAH). N-benzyleamide influences the energy metabolism and reveals antioxidant and antifatigue activities <sup>[1][2]</sup> .
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### REFERENCES

[1]. Alasmari M, et al. Inhibition of Fatty Acid Amide Hydrolase (FAAH) by Macamides. *Mol Neurobiol.* 2019 Mar;56(3):1770-1781.

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

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