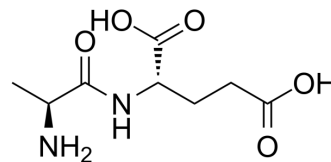


## Ala-Glu-OH

<b>Cat. No.:</b>	HY-139468
<b>CAS No.:</b>	13187-90-1
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	218.21
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Sealed storage, away from moisture Powder    -80°C    2 years -20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 250 mg/mL (1145.69 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>4.5827 mL</td> <td>22.9137 mL</td> <td>45.8274 mL</td> </tr> <tr> <td>5 mM</td> <td>0.9165 mL</td> <td>4.5827 mL</td> <td>9.1655 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4583 mL</td> <td>2.2914 mL</td> <td>4.5827 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	4.5827 mL	22.9137 mL	45.8274 mL	5 mM	0.9165 mL	4.5827 mL	9.1655 mL	10 mM	0.4583 mL	2.2914 mL	4.5827 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (458.27 mM); Clear solution; Need ultrasonic																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ala-Glu-OH is an agent of the dipeptide <sup>[1][2]</sup> .
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### REFERENCES

- [1]. Smid EJ, et al. Mechanism and energetics of dipeptide transport in membrane vesicles of *Lactococcus lactis*. *J Bacteriol.* 1989;171(1):292-298.
- [2]. Kim SJ, et al. Replacement of glutamine with the dipeptide derivative alanyl-glutamine enhances in vitro maturation of porcine oocytes and development of embryos. *Zygote.* 2014;22(2):286-289.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA