## **Product** Data Sheet

# **Aceglutamide**

Cat. No.: HY-B1065 CAS No.: 2490-97-3 Molecular Formula: C<sub>7</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub> Molecular Weight: 188.18

Target: Autophagy; Endogenous Metabolite Pathway: Autophagy; Metabolic Enzyme/Protease

Storage: Powder -20°C

2 years

3 years

-80°C In solvent 2 years

> -20°C 1 year

$$H_2N$$
 $O$ 
 $N$ 
 $H_2N$ 
 $O$ 

### **SOLVENT & SOLUBILITY**

In Vitro

H<sub>2</sub>O: 33.33 mg/mL (177.12 mM; Need ultrasonic) DMSO: 16.67 mg/mL (88.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.3141 mL	26.5703 mL	53.1406 mL
	5 mM	1.0628 mL	5.3141 mL	10.6281 mL
	10 mM	0.5314 mL	2.6570 mL	5.3141 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 20 mg/mL (106.28 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (8.87 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (8.87 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (8.87 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	Aceglutamide ( $\alpha$ -N-Acetyl-L-glutamine) is a psychostimulant and nootropic, used to improve memory and concentration [1].		
IC <sub>50</sub> & Target	Human Endogenous Metabolite	Human Endogenous Metabolite	

lopment and Validation of a RP-HPLC Method for the Simultaneous Determination of Aceglutamide and Oxiracetam in an Inject matographic Science, Volume 53, Issue 5, May/June 2015, Pages 767–770,	ion
Caution: Product has not been fully validated for medical applications. For research use only.	
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