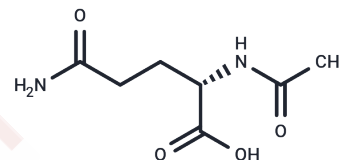


## Aceglutamide

## Chemical Properties

CAS No. :	2490-97-3
Formula:	C7H12N2O4
Molecular Weight:	188.18
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Aceglutamide (N2-Acetylglutamine) is an acetyl derivative of the amino acid L-glutamine, used to improve memory.
Targets(IC50)	Apoptosis,ASK,Amino Acids and Derivatives,Akt,Nrf2,Endogenous Metabolite,Autophagy

## Solubility Information

Solubility	H2O: 34 mg/mL (180.68 mM),Sonication is recommended. DMSO: 49.5 mg/mL (263.05 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.31 mM),Sonication is recommended. 10% DMSO+90% Saline: 6.25 mg/mL (33.21 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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	2.657 mL	5.3141 mL
50 mM	0.1063 mL	0.5314 mL	1.0628 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Magnusson I, et al. Metabolism. 1989 Aug;38(8 Suppl 1):82-8.

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