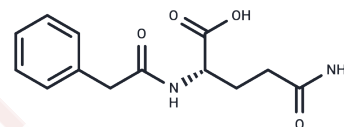


## Phenylacetylglutamine

## Chemical Properties

CAS No. :	28047-15-6
Formula:	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	264.28
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Phenylacetylglutamine (NSC 203800) is a normal constituent of human urine, but other mammals such as the dog, cat, rat, monkey, sheep, and horse do not excrete this compound. Phenylacetylglutamine is a major nitrogenous metabolite that accumulates in uremia. Phenylacetylglutamine also is a microbial metabolite found in Christensenellaceae, Lachnospiraceae, and Ruminococcaceae.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	Ethanol: 10 mg/mL (37.84 mM), Sonication is recommended. H <sub>2</sub> O: 80 mg/mL (302.71 mM), Sonication is recommended. DMSO: 245 mg/mL (927.05 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (18.92 mM), Sonication is recommended. <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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.7839 mL	18.9193 mL	37.8387 mL
5 mM	0.7568 mL	3.7839 mL	7.5677 mL
10 mM	0.3784 mL	1.8919 mL	3.7839 mL
50 mM	0.0757 mL	0.3784 mL	0.7568 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

Karoum F, et al. Plasma and cerebrospinal fluid concentration of phenylacetic acid in humans and monkeys. J Chromatogr Sci. 1983 Dec;21(12):546-50.

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