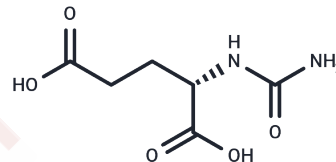


## Carglumic Acid

## Chemical Properties

CAS No. :	1188-38-1
Formula:	C <sub>6</sub> H <sub>10</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	190.15
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	Carglumic Acid (Ureidoglutaric acid) is an orphan drug used to treat hyperammonemia in patients with N-acetyl glutamate synthase absence. This rare hereditary disease results in elevated blood levels of ammonia, which can eventually cross the blood-brain barrier and lead to neurologic problems, coma, cerebral edema, and death. Carglumic acid was approved by the U.S. FDA on 18 March 2010.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 125 mg/mL (657.38 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: 2 mg/mL (10.52 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (52.59 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	5.259 mL	26.295 mL	52.5901 mL
5 mM	1.0518 mL	5.259 mL	10.518 mL
10 mM	0.5259 mL	2.6295 mL	5.259 mL
50 mM	0.1052 mL	0.5259 mL	1.0518 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

Carglumic acid. Prescrire Int. 2008 Apr;17(94):50-1.

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