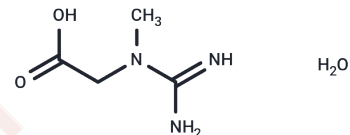


## Creatine monohydrate

## Chemical Properties

CAS No. :	6020-87-7
Formula:	C <sub>4</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	149.15
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	Creatine monohydrate (Methylguanidoacetic acid monohydrate) is a key player in the phosphagen energy system, especially in muscle and the brain. Creatine monohydrate is the primary source of ATP during high-intensity, short-term activities.
Targets(IC50)	Akt,Endogenous Metabolite,PI3K

## Solubility Information

Solubility	H <sub>2</sub> O: 10 mg/mL (67.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7047 mL	33.5233 mL	67.0466 mL
5 mM	1.3409 mL	6.7047 mL	13.4093 mL
10 mM	0.6705 mL	3.3523 mL	6.7047 mL
50 mM	0.1341 mL	0.6705 mL	1.3409 mL

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

Nouioua S, et al. Creatine deficiency syndrome. A treatable myopathy due to arginine-glycine amidinotransferase (AGAT) deficiency. Neuromuscul Disord. 2013 Aug;23(8):670-4.

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