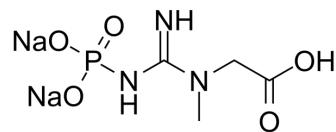


## Phosphocreatine disodium

Cat. No.:	HY-D0885B
CAS No.:	922-32-7
Molecular Formula:	C <sub>4</sub> H <sub>8</sub> N <sub>3</sub> Na <sub>2</sub> O <sub>5</sub> P
Molecular Weight:	255.08
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 125 mg/mL (490.04 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.9203 mL	19.6017 mL	39.2034 mL
				5 mM	0.7841 mL	3.9203 mL	7.8407 mL
				10 mM	0.3920 mL	1.9602 mL	3.9203 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (392.03 mM); Clear solution; Need ultrasonic						

### BIOLOGICAL ACTIVITY

Description	Phosphocreatine disodium, one of organic compounds known as alpha amino acids and derivatives, is a substrate for the determination of creatine kinase and used to regenerate ATP during skeletal muscle contraction <sup>[1]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### CUSTOMER VALIDATION

- Toxicol Appl Pharmacol. 9 March 2022, 115971.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. Feldman EB, et al. Creatine: a dietary supplement and ergogenic aid. Nutr Rev. 1999 Feb;57(2):45-50.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA