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# DATASHEET

## Creatine Phosphate disodium tetrahydrate

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### Product overview

<b>Name</b>	Creatine Phosphate disodium tetrahydrate
<b>Cat No</b>	HB12025
<b>Biological action</b>	Antagonist
<b>Purity</b>	>95%
<b>Description</b>	High-energy phosphate compound. Stores energy from mitochondria.

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### Biological Data

<b>Biological description</b>	High-energy phosphate compound that stores energy from mitochondria whenever sufficient amounts of ATP are present. Used in patch clamp internal solutions where cells require longer recording periods (e.g. synaptic plasticity).
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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### Chemical Data

<b>Chemical name</b>	Sodium 2-[methyl-[(E)-N'-phosphonocarbamimidoyl]amino]acetate
<b>Molecular Weight</b>	327.14
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>8</sub> N <sub>3</sub> Na <sub>2</sub> O <sub>5</sub> P
<b>CAS Number</b>	71519-72-7
<b>PubChem identifier</b>	90477620
<b>SMILES</b>	CN(CC(=O)[O-])/C(=N/P(=O)(O)O)/N.O.[Na+]
<b>InChi</b>	InChI=1S/C4H10N3O5P.Na.H2O/c1-7(2-3(8)9)4(5)6-13(10,11)12;;/h2H2,1H3,(H,8,9)(H4,5,6,10,11,12);;1H2/q;+1;/p-1
<b>InChiKey</b>	DUXMAYWIASUPMV-UHFFFAOYSA-M
<b>MDL number</b>	MFCD00150192

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### References

#### The creatine phosphate energy shuttle--the molecular asymmetry of a "pool".

Bessman SP (1987) Analytical biochemistry 161

**PubMedID** [3578809](#)

#### [Electrophysiological aspects of the effect of creatine phosphate on myocardial cellular activity in the normal state and in ischemia].

Rozenshtaukh LV et al (1990) Kardiologija 30

**PubMedID** [2087047](#)

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