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DATASHEET

Creatine Phosphate disodium tetrahydrate

Product overview

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

Biological Data

Biological description	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

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

Chemical Data

Chemical name	Sodium 2-[methyl-[(E)-N'-phosphonocarbamimidoyl]amino]acetate
Molecular Weight	327.14
Molecular Formula	C ₄ H ₈ N ₃ Na ₂ O ₅ P
CAS Number	71519-72-7
PubChem identifier	90477620
SMILES	CN(CC(=O)[O-])/C(=N/P(=O)(O)O)/N.O.[Na+]
InChi	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
InChiKey	DUXMAYWIASUPMV-UHFFFAOYSA-M
MDL number	MFCD00150192

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].

