

Product Datasheet

Phosphocreatine disodium hydrate (orb1302477)

Catalog Number	orb1302477
Category	Small Molecules
Description	Phosphocreatine disodium hydrate serves as a high-energy phosphate buffer in muscle tissue, facilitating the rapid regeneration of ATP from ADP. It is widely used in research on muscle physiology, cardiac energetics, and in vitro assays studying cellular energy metabolism and fatigue.
Target	Mitochondrial Metabolism,Akt,MAPK,Endogenous Metabolite,ERK,Apoptosis,ROS Kinase
Purity	99.58% (May vary between batches)
MW	273.09
Target Areas	ERK Endogenous Metabolite Akt Mitochondrial Metabolism Apoptosis MAPK ROS Kinase
Solubility (25°C)	PBS:100 mg/mL (366.18 mM);DMSO:Slightly soluble
CAS Number	19333-65-4
Formula	$C_4H_{10}N_3Na_2O_6P$
SMILES	<chem>O.[Na+].[Na+].CN(CC(O)=O)C(=N)NP([O-])([O-])=O</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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