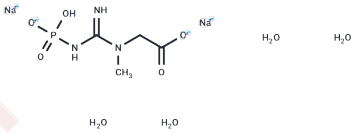
Data Sheet (Cat.No.T4739)

TargetMol

Sodium creatine phosphate dibasic tetrahydrate

Chemical Properties



CAS No. : 71519-72-7

Formula: C4H16N3Na2O9P

Molecular Weight: 327.14

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	Sodium creatine phosphate dibasic tetrahydrate (Creatine phosphate disodium salt tetrahydrate) mainly exists in the skeletal muscles of vertebrates. It is a substrate for the determination of creatine kinase and can be used for the regeneration of ATP during skeletal muscle contraction.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0568 mL	15.284 mL	30.568 mL
5 mM	0.6114 mL	3.0568 mL	6.1136 mL
10 mM	0.3057 mL	1.5284 mL	3.0568 mL
50 mM	0.0611 mL	0.3057 mL	0.6114 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

Kucherenko IS, et al. Determination of total creatine kinase activity in blood serum using an amperometric biosensor based on glucose oxidase and hexokinase. Talanta. 2015 Nov 1;144:604-11.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481