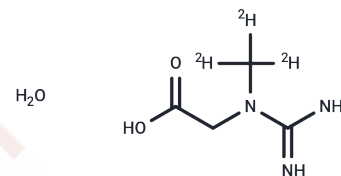


Creatine-D3 hydrate

Chemical Properties

CAS No. :	284664-86-4
Formula:	C ₄ H ₁₁ N ₃ O ₃
Molecular Weight:	152.17
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	Creatine-D3 hydrate is a deuterium labeled Creatine hydrate. Under physiological and in pathological conditions, Creatine hydrate (T22300) is pivotal in energy metabolism of muscle and brain cells.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 25 mg/mL (164.29 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5716 mL	32.858 mL	65.716 mL
5 mM	1.3143 mL	6.5716 mL	13.1432 mL
10 mM	0.6572 mL	3.2858 mL	6.5716 mL
50 mM	0.1314 mL	0.6572 mL	1.3143 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

Balestrino M, et AL. Beyond sports: Efficacy and safety of creatine supplementation in pathological or parapsychological conditions of brain and muscle. Med Res Rev. 2019;39(6):2427-2459.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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