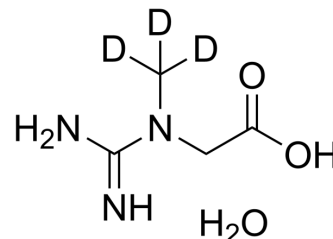


Creatine-d₃ hydrate

Cat. No.:	HY-W010388AS		
CAS No.:	284664-86-4		
Molecular Formula:	C ₄ H ₈ D ₃ N ₃ O ₃		
Molecular Weight:	152.17		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (164.29 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> Mass	1 mg	5 mg	10 mg
		1 mM	6.5716 mL	32.8580 mL	65.7160 mL
		5 mM	1.3143 mL	6.5716 mL	13.1432 mL
		10 mM	0.6572 mL	3.2858 mL	6.5716 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 6.67 mg/mL (43.83 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Creatine-d ₃ (hydrate) is a deuterium labeled Creatine hydrate. Creatine hydrate is pivotal in energy metabolism of muscle and brain cells, both in physiological and in pathological conditions[1].
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REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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