# Creatinine

Cat. No.:	HY-B0504		
CAS No.:	60-27-5		
Molecular Formula:	$C_4H_7N_3O$		
Molecular Weight:	113.12		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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## SOLVENT & SOLUBILITY

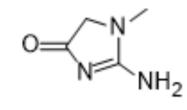
Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg	
	1 mM	8.8402 mL	44.2008 mL	88.4017 mL	
		5 mM	1.7680 mL	8.8402 mL	17.6803 mL
	10 mM	0.8840 mL	4.4201 mL	8.8402 mL	

# **BIOLOGICAL ACTIVITY**

Description	rate by the body.Target: Other at a fairly constant rate by the methylation of glycocyamine adenosyl methionine. It is the phosphorylation, it becomes t phosphocreatine are catalyzed	ak-down product of creatine phosphate in muscle, and is usually produced at a fairly constant rsCreatinine is a breakdown product of creatine phosphate in muscle, and is usually produced body (depending on muscle mass). Creatine is synthesized primarily in the liver from the (guanidino acetate, synthesized in the kidney from the amino acids arginine and glycine) by S- n transported through blood to the other organs, muscle, and brain, where, through the high-energy compound phosphocreatine. During the reaction, creatine and d by creatine kinase, and a spontaneous conversion to creatinine may occur [1]. Creatinine be used to calculate the creatinine clearance (CrCl), which reflects the glomerular filtration cal index of renal function [2].
IC., & Target	Microbial Metabolite	Human Endogenous Metabolite

Microbial Metabolite

#### Human Endogenous Metabolite



# CUSTOMER VALIDATION

- Appl Surf Sci. 2018 Nov 1, 457:684-694.
- Research Square Preprint. 2021 Aug.

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### REFERENCES

[1]. Allen, P.J., Creatine metabolism and psychiatric disorders: Does creatine supplementation have therapeutic value. Neurosci Biobehav Rev, 2012. 36(5): p. 1442-62.

[2]. Levey, A.S., et al., Using standardized serum creatinine values in the modification of diet in renal disease study equation for estimating glomerular filtration rate. Ann Intern Med, 2006. 145(4): p. 247-54.

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

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