Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Creatinine

Catalog No: tcsc2705

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
60-27-5

Formula:
$C_4H_7N_3O$

Pathway:
Metabolic Enzyme/Protease

Target:
Endogenous Metabolite

Purity / Grade:
>98%

Solubility:
H2O : ≥ 100 mg/mL (884.02 mM)

Alternative Names:
NSC13123

Observed Molecular Weight:
113.12

Product Description

Creatinine(NSC13123) is a break-down product of creatine phosphate in muscle, and is usually produced at a fairly constant rate by the body.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Target: Others

Creatinine is a breakdown product of creatine phosphate in muscle, and is usually produced at a fairly constant rate by the body (depending on muscle mass). Creatine is synthesized primarily in the liver from the methylation of glycocyamine (guanidino acetate, synthesized in the kidney from the amino acids arginine and glycine) by S-adenosyl methionine. It is then transported through blood to the other organs, muscle, and brain, where, through phosphorylation, it becomes the high-energy compound phosphocreatine. During the reaction, creatine and phosphocreatine are catalyzed by creatine kinase, and a spontaneous conversion to creatinine may occur [1]. Creatinine levels in blood and urine may be used to calculate the creatinine clearance (CrCl), which reflects the glomerular filtration rate (GFR), an important clinical index of renal function [2].