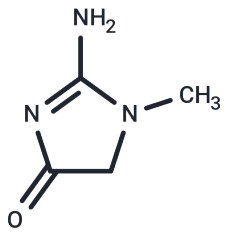
Data Sheet (Cat.No.T0496)

TargetMol

Creatinine

Chemical Properties



CAS No. : 60-27-5

Formula: C4H7N3O

Molecular Weight: 113.12

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Creatinine (NSC-13123) is the breakdown product of creatine, a constituent of muscle tissue, that is excreted by the kidney and whose serum level is used to evaluate kidney function.
Targets(IC50)	Endogenous Metabolite
In vitro	Creatinine is a break-down product of creatine phosphate in muscle, and is usually produced at a fairly constant rate by the body. 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.

Solubility Information

Solubility	H2O: 33.33 mg/mL (294.64 mM),Sonication is recommended. DMSO: 1.18 mg/mL (10.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.8402 mL	44.2008 mL	88.4017 mL
5 mM	1.768 mL	8.8402 mL	17.6803 mL
10 mM	0.884 mL	4.4201 mL	8.8402 mL
50 mM	0.1768 mL	0.884 mL	1.768 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.

Reference

Allen PJ, et al. Neurosci Biobehav Rev, 2012, 36(5), 1442-1462.
Levey AS, et al. Ann Intern Med, 2006, 145(4), 247-254.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481