

Creatinase, Creatininase, and Sarcosine Oxidase Raw Materials for Creatinine Assay Kits

Altered creatinine levels can be an indicator of kidney dysfunction or other medical conditions that result in lower renal blood flow such as in diabetes or cardiovascular disease. The measure of serum and urine creatinine levels is an important clinical test for renal disease and dysfunction. Creatinine assay kits can measure creatinine levels in samples. Creative Enzymes provides high-quality creatinase, creatininase, and sarcosine oxidase, which are raw materials for creatinine assay kits.

[Creatinase from E. coli, Recombinant](#)



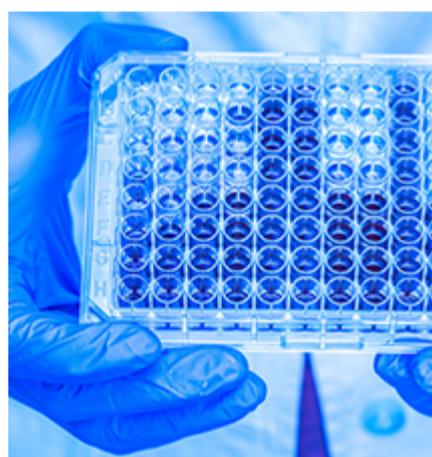
Description

Creatinase (EC 3.5.3.3) is an enzyme that catalyzes the chemical reaction: creatine + H₂O ↔ sarcosine + urea. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amidines. Creatinase accelerates the conversion reaction of creatine and water molecule to sarcosine and urea. It always acts in homodimer state and is induced by choline chloride.

Product Information

Cat No. NATE-1241	Appearance of Solution: Clear
Purity: 95%	Concentration (Bradford method): 35mg/ml
Form: Liquid	Stability: 2-8°C, at least 1 year -20°C, at least 3 years
Activity: 20 U/mg	

[Creatininase from E. coli, Recombinant](#)



Description

Creatininase (EC 3.5.2.10) is an enzyme that catalyzes the hydrolysis of creatinine to creatine, which can then be metabolized to urea and sarcosine by creatinase. Creatininase is a member of the urease-related amidohydrolases, the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in cyclic amides.

Product Information

Cat No. NATE-1242	Appearance of Solution: Clear
Purity: 95%	Concentration (Bradford method): 14mg/ml
Form: Liquid	Stability: 2-8°C, at least 1 year -20°C, at least 3 years
Activity: 150 U/mg	

[Sarcosine Oxidase from E. coli, Recombinant](#)



Description

Sarcosine oxidase is an enzyme (EC 1.5.3.1) that catalyzes the oxidative demethylation of sarcosine to yield glycine, H₂O₂, 5,10-CH₂-tetrahydrofolate in a reaction requiring H₄-tetrahydrofolate and oxygen.

Product Information

Cat No. DIA-414	Appearance of Solution: Clear
Purity: 95%	Concentration (Bradford method): 20mg/ml
Form: Liquid	Stability: 2-8°C, at least 1 year -20°C, at least 3 years
Activity: 45 U/mg	

Except for the above-mentioned enzymes, Creative Enzymes also provides other [creatinase](#), [creatininase](#), and [sarcosine oxidase](#) products for both research and industry use.