

**Creatinase from Actinobacillus sp.**

**Product Code:** 173301

**EC no:** 3.5.3.3

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**SKU:** 173301

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

#### EC 3.5.3.3

**Product name:** Creatine amidinohydrolase

**Appearance:** White amorphous powder lyophilized

**Activity:** Grade II, 6.0 U/mg-solid or more (contains approx. 50% stabilizers)

**Contaminants:** NADH oxidase  $\leq 5.0 \times 10^{-2}$  %, Catalase  $\leq 2.0\%$

**Stabilizers:** Sugars, EDTA

**Stability:** Stable at - 20 °C for at least one year

**Molecular weight:** Approx. 100,000

**Isoelectric point**  $4.6 \pm 0.1$

**Michaelis constants:**  $1.9 \times 10^{-2}$  M (Creatine)

**Structure:** 2 subunits per mol of enzyme

**Inhibitors:**  $\text{Hg}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Ag}^{+}$

**Optimum pH:** 8.0

**Optimum temperature:** 40 °C

**pH Stability:** pH 5.5 – 9.0 (25 °C, 16hr)

**Thermal stability:** Below 50 °C (pH 7.5, 30min)