

## **Creatine deiminase from Microorganism**

**Product Code:** 173610

**EC:** 3.5.4.21

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**SKU:** 173610

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

### **PRODUCT DESCRIPTION**

### **SPECIFICATIONS**

**EC 3.5.4.21**

Product name:	Creatinine iminohydrolase
Appearance:	White amorphous powder lyophilized
Activity:	Grade III, 10U/mg-solid or more (containing ~ 30% of stabilizer)
Contaminants: ≤ 1.0×10 <sup>-2</sup> % Urease ≤ NH <sub>4</sub> <sup>+</sup> ≤ 1.0×10 <sup>-2</sup> μg/u	Creatinine amidohydrolase ≤ 1.0×10 <sup>-2</sup> % Creatine amidinohydrolase 1.0×10 <sup>-2</sup> % NADH oxidase ≤ 1.0×10 <sup>-2</sup> %
Stabilizers:	Mannitol
Stability:	Stable at □20°C for at least 12 months
Molecular weight:	approx. 260,000

Isoelectric point:	4.4
Michaelis constant:	$3.5 \times 10^{-3} \text{M}$ (Creatinine)
Structure:	6 subunits per mol of enzyme
Inhibitors:	$\text{Ag}^+$ , $\text{Hg}^{2+}$ , o-phenanthroline, monoiodoacetate
Optimum pH:	8.5–9.5
Optimum temperature:	65–75°C
pH Stability:	pH 7.0–11.0 (30°C, 20hr)
Thermal stability:	below 65°C (pH 7.5, 1hr)