

Creatine deiminase from Microorganism
Product Code: 173610
EC: 3.5.4.21

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:	Creatinine amidohydrolase ≤ 1.0×10-2 % Creatine amidinohydrolase ≤ 1.0×10-2 % Urease ≤ 1.0×10-2 % NADH oxidase ≤ 1.0×10-2 % NH4+ ≤ 1.0×10-2 µg/u
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:	Ag^+ , 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)