

## Native Creatine Amidinohydrolase from Microorganism

### Product Information

<b>Cat#</b>	BDE-015
<b>Description</b>	Creatine Amidinohydrolase acts on creatine, providing a critical upstream catalytic step for creatinine metabolism assays.
<b>Applications</b>	Used in combined creatinine and creatine assay kits to enable precise analysis of renal function indicators.
<b>Enzyme Commission Number</b>	EC 3.5.3.3
<b>Form</b>	White amorphous lyophilized powder
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 5.8 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to catalyze the complete conversion of 1 μmol of creatine to creatine monophosphate per minute under specified assay conditions.
<b>Molecular Weight</b>	48 kDa (SDS-PAGE)
<b>Purity</b>	≥ 90%
<b>Optimum pH</b>	8.0
<b>Optimum temperature</b>	45°C
<b>pH Stability</b>	4.5-10.0 (25°C, 16 h)
<b>Thermal Stability</b>	< 50°C (pH 7.5, 30 min)
<b>Isoelectric Point</b>	4.6
<b>Km Value</b>	8.81×10 <sup>-3</sup> M (Creatinine)
<b>Inhibitors</b>	Ag <sup>+</sup> , Cu <sup>2+</sup> , Hg <sup>2+</sup>



**Creative Enzymes**

*Diagnostic Enzymes*

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**Protectant**

EDTA and carbohydrates

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