

Creatinase from Actinobacillus sp.

Product Code: 173301

EC no: 3.5.3.3

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 ± 0.1

Michaelis constants: 1.9×10^{-2} M (Creatine)

Structure: 2 subunits per mol of enzyme

Inhibitors: Hg^{2+} , Cu^{2+} , 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)