Tribioscience

Creatinine amidohydrolase, Enzyme Activity

Catalog	Unit
TBP0010-1KU	1000 U
TBP0010-5KU	5000 U

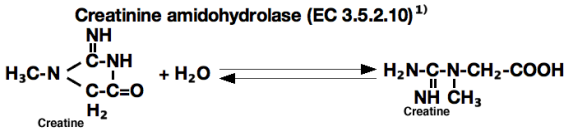
Preparation and Specification

Appearance: White amorphous powder, lyophilized

Activity: GradeII (-211) 450U/mg-solid or more; GradeIII (-311) 150U/mg-solid or more

Contaminants: NADH oxidase ≤5.0×10^{-2}%; Catalase ≤2.0%

Stabilizers: Sucrose, BSA



Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 175,000

Isoelectric point: 4.7

Michaelis constants: 3.2×10^{-2}M (Creatinine), 5.7×10^{-2}M (Creatine)

Structure: 6 subunits per enzyme molecule (One zinc is bound to each subunit)

Inhibitors: Ag^{+}, Hg^{++}, N-bromosuccinimide, EDTA

Optimum pH: 6.5-7.5

Optimum temperature: 70℃

pH Stability: pH 7.5-9.0 (5℃, 16hr)

Thermal stability: below 70℃ (pH 7.5, 30min)

Applications

This enzyme is useful for enzymatic determination of creatinine when coupled with creatine amidinohydrolase (CRH-211, CRH-221, CRH-229) and sarcosine oxidase (SAO-351) in clinical analysis.

For research use only