Tribioscience

Creatinine amidohydrolase

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

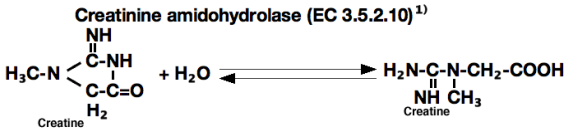
Preparation and Specification

Appearance: White to off-white (Solid)

Activity: 479.6 U/mg-solid

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

Stabilizers: Sucrose, BSA



Properties

Stability: Stable at -20°C for at least 2 years.

Molecular weight: 29 kDa

Isoelectric point: 5.3

Inhibitors: Hg^{2+}, Cu^{2+}, Fe^{3+}

Optimum pH: 7.0-8.0

Optimum temperature: 65℃

pH Stability: pH 5.5-10.0 (25°C, 16 h)

Thermal stability: stable below 65°C (pH 8.0, 30 min)

Unit Definition: One unit is defined as the amount of enzyme required to catalyze the formation of 1 μmol of creatine per minute from creatinine under standard assay conditions.

Applications

This enzyme is useful for enzymatic determination of creatinine when coupled with creatine amidinohydrolase and sarcosine oxidase in clinical analysis.

For research use only