

β-Glucosidase, Enzyme Activity

Catalog	Unit
TBP0007-1KU	1000 U
TBP0007-5KU	5000 U

Preparation and Specification

Appearance: Light yellow amorphous powder, lyophilized

Activity: Gradel 15U/mg-solid or more (containing approx. 30% of BSA)

Contaminant: α-Amylase ≤5.0×10⁻⁴%

Stabilizers: BSA, glutathione (reduced)

Properties

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

Molecular weight: approx. 110,000

Isoelectric point: 7.3

Michaelis constants: 2.8×10⁻³M (p-Nitrophenyl-β-D-glucopyranoside), 3.3×10⁻³M
(2,4-Dichlorophenyl-β-D-glucopyranoside)

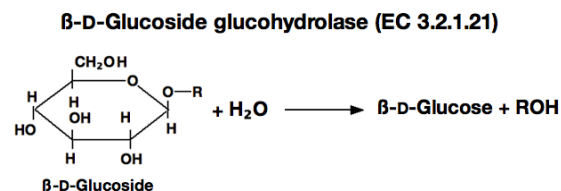
Structure: 2 subunits per enzyme molecule

Optimum pH: 5.5

Optimum temperature: 50-55°C

pH Stability: pH 6.0-9.0 (25°C, 64hr)

Thermal stability: below 50°C (pH 7.3, 1hr)



Applications

This enzyme is useful for structural investigations of carbohydrates and for the enzymatic determination of α-amylase in combination with α-glucosidase in clinical analysis.

For research use only