

Native α -Glucosidase (α -Glu) from Microorganism

Product Information

Cat#	BDE-032
Specification	3 KU, 50 KU, 500 KU, 1000 KU
Description	α -Glucosidase (α -Glu) hydrolyzes α -glycosidic bonds to release glucose, serving as a key tool for blood glucose-related metabolic analysis and enzymatic assays.
Applications	Used in glycosylated hemoglobin and blood glucose-related assay kits to facilitate the hydrolysis and release of glycosylated peptide fragments.
Enzyme Commission Number	EC 3.2.1.20
Form	White amorphous lyophilized powder
Source	Microorganism
Activity	≥ 40 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to generate 1 μ mol of PNP per minute under specified assay conditions.
Molecular Weight	65 kDa (SDS-PAGE)
Purity	$\geq 90\%$
Optimum pH	7.1
Optimum temperature	50°C
pH Stability	6.0-8.0 (25°C, 16h)
Thermal Stability	< 50°C (pH 7.0, 10 min)
Isoelectric Point	5.2
Km Value	5.8×10^{-4} M (p-Nitrophenyl- α -D-glucopyranoside)
Inhibitors	SDS, Ag ⁺ , Hg ²⁺ , Cu ²⁺



Creative Enzymes

Diagnostic Enzymes

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Protectant

BSA

Storage

Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA