



Creative Enzymes

Diagnostic Enzymes

High Purity Recombinant Beta-Glucuronidase

Product Information

Cat#	DIA-515
Source	Escherichia coli
Description	High purity recombinant β -glucuronidase from Escherichia coli for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Solution
Activity	~ 15,000 U/mg (37 °C, pH 6.8 on phenolphthalein- β -D-glucuronide) ~ 50 U/mg (37 °C, pH 7.5 on pNP- β -D-glucuronide)
Unit Definition	30000 U/mg protein: One unit of β -D-glucuronosidase activity is defined as the amount of enzyme required to release one μ g of phenolphthalein per hour from phenolphthalein- β -D-glucuronide (0.5 mM) in sodium phosphate buffer (100 mM) at pH 6.8 and 37 °C. 110 U/mg protein: One unit of β -D-glucuronosidase activity is defined as the amount of enzyme required to release one μ mole of p-nitrophenol per minute from pNP- β -D-glucuronide (1 mM) in Tris HCl buffer (100 mM) pH 7.5 and 37 °C., monitored at 410 nm.
Storage	2–8 °C
Synonyms	β -D-glucuronoside glucuronosohydrolase; GUS
Enzyme Commission Number	EC 3.2.1.31
Stability	> 1 year under recommended storage conditions
Optimum pH	6.8
Optimum temperature	37 °C
Buffer	Tris HCl/NaCl/EDTA
Molecular Weight	82600 Da

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Concentration	~ 250 U/mL
Specificity	Hydrolysis of non-reducing terminal β -D-glucuronic acid residues from glycoproteins and oligosaccharides of glycoconjugates.