

## Beta-Glucuronidase from *Escherichia coli*

### Product Information

<b>Cat#</b>	DIA-515
<b>Source</b>	<i>Escherichia coli</i>
<b>Description</b>	High purity recombinant $\beta$ -glucuronidase ( <i>Escherichia coli</i> ) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Solution
<b>ECNumber</b>	3.2.1.31
<b>Activity</b>	~ 15,000 U/mg (37 °C, pH 6.8 on phenolphthalein- $\beta$ -D-glucuronide) ~ 50 U/mg (37 °C, pH 7.5 on pNP- $\beta$ -D-glucuronide)
<b>Optimum pH</b>	6.8
<b>Optimum temperature</b>	37 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	30000 U/mg protein: One unit of $\beta$ -D-glucuronidase activity is defined as the amount of enzyme required to release one $\mu$ g of phenolphthalein per hour from phenolphthalein- $\beta$ -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 $\beta$ -D-glucuronidase activity is defined as the amount of enzyme required to release one $\mu$ mole of p-nitrophenol per minute from pNP- $\beta$ -D-glucuronide (1 mM) in Tris HCl buffer (100 mM) pH 7.5 and 37 °C, monitored at 410 nm.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	$\beta$ -D-glucuronoside glucuronosohydrolase; GUS
<b>Buffer</b>	Tris HCl/NaCl/EDTA
<b>Molecular Weight</b>	82600 Da
<b>Concentration</b>	~ 250 U/mL
<b>Specificity</b>	Hydrolysis of non-reducing terminal $\beta$ -D-glucuronic acid residues from glycoproteins



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and oligosaccharides of glycoconjugates.

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