

β-GLUCURONIDASE (*Escherichia coli*)

08/23

Recombinant**E-BGLAEC**

EC: 3.2.1.31

Synonyms: β-D-glucuronoside glucuronosohydrolase; GUS**CAZy Family:** GH2**CAS:** 9001-45-0**Refer to the product lot number Certificate of Analysis for lot specific properties.****PROPERTIES****1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 82,600)
- Single major band on isoelectric focusing (pI ~ 5.4)

2. SPECIFICITY:

Hydrolysis of non-reducing terminal β-D-glucuronic acid residues from glycoproteins and oligosaccharides of glycoconjugates.

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima: 5.0-7.5**
Temperature Stability: up to 50°C**

4. STORAGE CONDITIONS:

The enzyme is supplied in 20 mM Tris.HCl pH 7.5, 50 mM NaCl, 0.1 mM EDTA plus 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium phosphate buffer (100 mM), pH 6.8 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

DO NOT FREEZE / THAW.**5. REFERENCES:**

Richard A. Jefferson, Sean M. Burgess, & David Hirsh (1986). β-D-Glucuronidase from *Escherichia coli* as a gene-fusion marker. *Prot. Natl. Acad.Sci. USA.*, **83**, 8447-8451.

** Literature values