

Native Escherichia coli Beta Galactosidase

Cat. No. lacZ-01EFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	lacZ;beta-galactosidase;beta-D-galactosidase;lactase;Native;E. coli
Species	Escherichia coli
Source	E. coli
ProteinLength	1-1024 aa
Description	Escherichia coli Beta-Galactosidase is an inducible tetrameric enzyme coded by the lacZ gene of the lac operon. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides.
Form	Lyophilized
Bio-activity	>600 U/mg protein
Molecular Mass	540 kDa (tetramer)
Purity	Native purified protein
Applications	Functional Assays
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Avoid repeated freezing and thawing.

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Concentration	Protein content 20-25% of total weight; Reconstitute with 1.0ml sterile distilled water
Reconstitution	Reconstitute with 1.0ml sterile distilled water or aqueous buffer
mRNA Refseq-Weblink	945006
MIM-Weblink	beta-galactosidase;beta-D-galactosidase;lactase;beta-D-galactoside galactohydrolase;EC 3.2.1.23
EC	3.2.1.23
CAS	9031-11-2
Unit definition	One unit hydrolyses 1 μ mole of p-nitrophenol- β -D-galactoside to p-nitrophenol per minute at 37°C
Storage Buffer	Phosphate buffered saline, 74% Sucrose

GENE INFORMATION

Gene Name	lacZ
Official Symbol	NP_414876.1
Synonyms	NP_414876.1
Gene ID	https://www.ncbi.nlm.nih.gov/protein/NP_414876.1
Protein Refseq	https://www.ncbi.nlm.nih.gov/gene/945006
UniProt ID	P00722

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