

BETA GALACTOSIDASE Active Protein | lacZ active protein

NATIVE ESCHERICHIA COLI BETA GALACTOSIDASE

CATALOG # AAA50519	APPLICATIONS Functional Assay
------------------------------	---

PRODUCT SYNONYMS

BETA GALACTOSIDASE; NATIVE ESCHERICHIA COLI BETA GALACTOSIDASE; lacZ active protein

PRODUCT SPECIFICATIONS

Form/Format	Purified protein from Escherichia coli - lyophilized
Concentration	Protein content is approximately 20-25% of total weight (varies by lot)
Sequence Length	1024
Applicable Applications for lacZ active protein	FA (Functional Assay)
Target Species	Bacterial
Reconstitution	Reconstitute with 1.0 ml sterile distilled water or aqueous buffer of choice. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. It is recommended that the vial is gently mixed after reconstitution.
Buffer Solution	Phosphate buffered saline
Preservative Stabilizers	Contains Sucrose
Activity	>600 U/mg protein One unit hydrolyses 1 umole of p-nitrophenol-b-D-galactoside to p-nitrophenol per minute at 37°C. For batch-specific activity, please inquire.
Preparation and Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

ADDITIONAL INFORMATION

Related Product Information for lacZ active protein	Escherichia coli Beta-Galactosidase is an inducible tetrameric enzyme coded by the lac Z gene of the lac operon that is often used as a reporter to assess the efficiency of transfection. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	16128329
NCBI GeneID	945006
NCBI Accession #	NP_414878.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P00722 ; Q2MC80

Molecular Weight	540 kD
NCBI Official Full Name	beta-D-galactosidase
NCBI Official Symbol	lacZ
NCBI Official Synonym Symbols	ECK0341; JW0335
NCBI Protein Information	beta-D-galactosidase
UniProt Protein Name	Beta-galactosidase
UniProt Gene Name	lacZ
UniProt Synonym Gene Names	Beta-gal
UniProt Entry Name	BGAL_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/active-protein/beta-galactosidase/50519>