

Recombinant E. coli beta Galactosidase protein (Tagged) ab267967

Description	
Product name	Recombinant E. coli beta Galactosidase protein (Tagged)
Purity	> 90 % SDS-PAGE. NULL
Expression system	Mammalian
Accession	<u>P00722</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Escherichia coli
Sequence	TMITDSLAVVLQRRDWENPGVTQLNRLAAHPPFASWRNS EEARTDRPSQQ LRSLNGEWRFAWFPAPEAVPESWLECDLPEADTVVPS NWQMHGYDAPIY TNVTYPITVNPPFVPTENPTGCYSLTFNVDESWLQEGQTRII FDGVNSAF HLWCNGRWVGYGQDSRLPSEFDLSAFLRAGENRLAVMV LRWSDGSYLEDQ DMWRMSGIFRDVSLHLHKPTTQISDFHVATRNDDFSRAVL EAEVQMCCEL RDYLRVTVSLWQGETQVASGTAPFGGEIIDERGGYADRV TRLNVENPKL WSAEIPNLYRAVVELHTADGTLIEAEACDVGFREVRIENGL LLLNGKPLL IRGVNRHEHHPLHGQVMDEQTMVQDILLMKQNNFNAVRC SHYPNHPLWYT LCDRYGLYVVDEANIETHGMVPMNRLTDDPRWLPAMSER VTRMVQRDRNH PSVIWVSLGNESGHGANHDALYRWIKSVDPSPRPVQYEGGG ADTTATDIIC PMYARVDEDQFPAPVPKWSIKKWLSLPGETRPLILCEYAH AMGNSLGGFA KYWQAQFRQYPRLLQGGFVWDWVDQSLIKYDENGPNWSAY GGDFGDTPNDRQ

FCMNGLVFADRTPHPALTEAKHQQQFFQFRLSGQTIEVTS
EYLF RHSDNE
LLHWMVALDGKPLASGEVPLDVAPQGKQLIELPELPQPE
SAGQLWLTVRV
VQPNATAWSEAGHISAWQQWRLAENLSVTLPAASHAIPH
LTTSEMDFCIE
LGNKRWQFNRSQSGFLSQMWIGDKKQLLTPLRDQFTRAPL
DNDIGVSEATR
IDPNAWVERWKAAGHYQAEALLQCTADTLADAVLITTAH
AWQHQQKTLF
ISRKTYRIDGSGQMAITVDVEVASDTPHPARIGLNCQLAQV
AERVNWLGL
GPQENYPDRLTAACFDRWDLPLSDMYTPYVFPSENGLR
GTRELNYGPHQ
WRGDFQFNISRYSQQLMETSHRHLLHAEETWLNIDGF
HMGIGGDDSWSPSVSAEFQLSAGRYHYQLVWCQK

Predicted molecular weight	116 kDa
Amino acids	2 to 1024
Tags	His tag N-Terminus
Additional sequence information	Mature chain N-terminal 10xHis-tagged and C-terminal Myc-tagged
Description	Recombinant <i>E. coli</i> beta Galactosidase protein (Tagged)

Specifications

Our **Abpromise guarantee** covers the use of **ab267967** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: PBS, 6% Trehalose Lyophilized from.
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General Info

Relevance	Beta galactosidase is coded by a gene (lac z) in the lac operon of Escherichia coli. It is a metalloenzyme that splits lactose into glucose and galactose. It hydrolyzes terminal, non-reducing beta-D-galactose residues in beta-D-galactosides. Activation by cations seems to be substrate dependent. K ⁺ , Na ⁺ , NH ₄ ⁺ , Rb ⁺ , Cs ⁺ and Mn ⁺⁺ all activate enzyme activity based upon the substrate used.
Cellular localization	Cytoplasmic

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