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Recombinant E.coli melA protein

Catalog Number: ATGP1535

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-451aa

UniProt No.

P06720

NCBI Accession No.

NP 418543

Alternative Names

Alpha-galactosidase, ECK4112, JW4080, mel-7

PRODUCT SPECIFICATION

Molecular Weight

53 kDa (474aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

melA (alpha-galactosidase) belongs to glycosyl hydrolase 4 family. Alpha-galactosidases catalyse the hydrolysis of saccharides containing o-1, 6, -galactoside linkages. The three alpha-galactosidases catalyse the same reaction, but are localized in different cellular compartments: The E. coli enzyme is cytoplasmic protein and the human enzyme and the yeast enzyme is secretory proteins. Therefore, although the active enzyme from all three species has nearly the same molecular weight, structural similarities, as well as differences, are expected. Recombinant E. coil melA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



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conventional chromatography techniques.

Amino acid Sequence

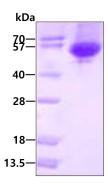
<MGSSHHHHHH SSGLVPRGSH MGS>MMSAPKI TFIGAGSTIF VKNILGDVFH REALKTAHIA LMDIDPTRLE ESHIVVRKLM DSAGASGKIT CHTQQKEALE DADFVVVAFQ IGGYEPCTVT DFEVCKRHGL EQTIADTLGP GGIMRALRTI PHLWQICEDM TEVCPDATML NYVNPMAMNT WAMYARYPHI KQVGLCHSVQ GTAEELARDL NIDPATLRYR CAGINHMAFY LELERKTADG SYVNLYPELL AAYEAGQAPK PNIHGNTRCQ NIVRYEMFKK LGYFVTESSE HFAEYTPWFI KPGREDLIER YKVPLDEYPK RCVEQLANWH KELEEYKKAS RIDIKPSREY ASTIMNAIWT GEPSVIYGNV RNDGLIDNLP QGCCVEVACL VDANGIQPTK VGTLPSHLAA LMQTNINVQT LLTEAILTEN RDRVYHAAMM DPHTAAVLGI DEIYALVDDL IAAHGDWLPG WLHR

General References

Naumov G., et al. (1990) Mol Gen Genet. 224(1):119-28. Naumov G., et al. (1995) Yeast. 30(5): 481-3.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

