

# Recombinant e.coli melA protein

Catalog Number: ATGP1535

## PRODUCT INFORMATION

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### 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

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### 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

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### Description

melA (alpha-galactosidase) belongs to glycosyl hydrolase 4 family. Alpha-galactosidases catalyse the hydrolysis of saccharides containing  $\alpha$ -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. coli 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

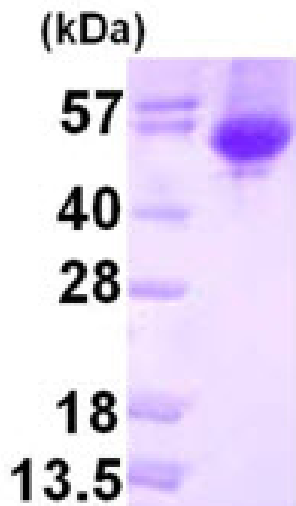
MGSSHHHHHH SGLVPRGSH MGSMM SAPKI TFIGAGSTIF VKNILGDV FH REALKTAHIA LMDIDPTRLE ESHIVVRKLM  
DSAGASGKIT CHTQQKEALE DADFVVVAFQ IGGYEPCTVT DFEVCKRHGL EQTIADTLGP GGIMRALRTI PHLWQICEDM  
TEVCPDATML NYVNP MAMNT WAMYARYPHI KQVGLCHSVQ GTAEELARDL NIDPATLRYR CAGINHMAFY LELERKTADG  
SYVNLYPELL AAYEAGQAPK PNIHGNTRCQ NIVRYEMFKK LGYFVTE SSE HFAEYTPWFI KPGREDLIER YKVPLDEYPK  
RCVEQLANWH KELEEYKKAS RIDIKPSREY ASTIMNAIWT GEPSVIYGNV RNDGLIDNLP QGCCVEVA CL VDANGIQPTK  
VGTLP SHLAA 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.

15% SDS-PAGE (3ug)