

## melA E. coli

**Description:** melA E. coli Recombinant produced in E. coli is a single polypeptide chain containing 474 amino acids (1-451) and having a molecular mass of 53.0kDa. melA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-616

For research use only.

**Synonyms:** Mel-7, Alpha-galactosidase, b4119, JW4080.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMM SAPKI TFIGAGSTIF  
VKNILGDFVH REALKTAHIA LMDIDPTRLE ESHIVVRKLM DSAGASGIT CHTQQKEALE  
DADFVVVAFQ IGGYEPCTVT DFEVCKRHGL EQTIADTLGP GGIMRALRTI PHLWQICEDM  
TEVCPDATML NYVNPAMNT WAMYARYPHI KQVGLCHSVQ GTAEELARDL NIDPATLRYR  
CAGINHMAFY LE

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The melA solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

melA is a member of the glycosyl hydrolase 4 family. melA catalyze the hydrolysis of saccharides containing  $\alpha$ -1,6-galactoside bonds. melA catalyze the same reaction in E.coli, human and yeast but is found in different cellular sections: The E.coli melA is a cytoplasmic protein and the human and yeast melA are secretory proteins. Thus, even though the active enzyme from all three species has almost an equal molecular weight, structural resemblances, as well as dissimilarities, are probable.

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