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**Product Data Sheet**


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Product Name: melA E. coli  
 Cat. No.: GP21914  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mel-7; Alpha-galactosidase; b4119; JW4080.		
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 YKVPLDEY PK RCVEQLANWH KELEEYKKAS RIDIKPSREY ASTIMNAIWT GEPSVIYGNV RNDGLIDNLP QGCCVEVACL VDANGIQPTK VGTLP SHLAA LMQTNINVQT LLTEAILTEN RDRVYHAAMM DPHTAAVLGI DEIYALVDDL IAAHGDWLPG WLHR.		
Formulation	The melA solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.		

**Introduction**

melA is a member of the glycosyl hydrolase 4 family. melA catalyze the hydrolysis of saccharides containing o-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.

**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%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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.

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