

## maiA Protein, *Serratia marcescens*

Cat. No.:	HY-P702172
Synonyms:	maiA; Maleate isomerase; Maleate cis-trans isomerase
Species:	Others
Source:	E. coli
Accession:	Q9KW10 (M1-Y250)
Gene ID:	/
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	maiA protein is a crucial enzyme involved in catalyzing the cis-trans isomerization of the C2-C3 double bond in maleate, leading to the formation of fumarate. By facilitating this chemical transformation, maiA plays a vital role in regulating the isomeric configuration of the C2-C3 double bond in maleate, ultimately converting it to fumarate. This enzymatic activity is significant in the context of metabolic pathways where maleate needs to be metabolized or redirected, and understanding the function of maiA can provide insights into the regulation of these processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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