

## Recombinant *Candida albicans* eno1 Antigen, His tagged

**Cat. No.** eno1-013C    **Lot. No.** (See product label)

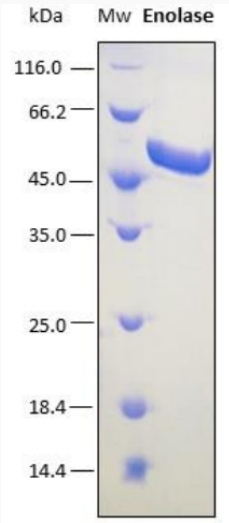
### SPECIFICATION

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| <b>Product Overview</b> | The <i>Candida albicans</i> enolase gene has been expressed as a recombinant antigen fused to a his-tag in its N-terminus. It is produced from the complete ORF of the 2-phospho-D-glyceratehydro-lyase.                                                                                                                                         |
| <b>Species</b>          | <i>Candida albicans</i>                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Enolase (2-phosphoD-glycerate hydrolase) is an important glycolytic enzyme located on the cell wall of <i>Candida albicans</i> . This is a thermostable and proteinic antigen, produced by all candida species. It is a marker of deep tissular invasion, detectable even in absence of candidemia. It has been described as highly immunogenic. |
| <b>Tag</b>              | N-His                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | Determined by SDS-PAGE, the protein band is between molecular markers of 66.2-45 kDa, while relative molecular mass calculated from amino acid sequence is 56,543.7 Da.                                                                                                                                                                          |
| <b>Purity</b>           | > 95% by observation on SDS-PAGE electrophoresis                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>     | WB, DB, IE, DE                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and                                                                                                                                                                                                                                                           |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.                                                                                                                                                                                                                |
| <b>Storage Buffer</b> | 20 mM phosphate buffer pH 8, 1 M NaCl, 0.1% polyoxyethylene (10) tridecylether and 8 M urea                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>  | 1.28 mg/mL                                                                                                                                                                                                                                                                                                                                                   |
| <b>Shipping</b>       | Protein is shipped with dry ice.                                                                                                                                                                                                                                                                                                                             |
| <b>Reference</b>      | <p>1. Eroles, P., Sentandreu, M., Elorza, M.V. and Sentandreu, R. The highly immunogenic enolase and HSP70 are adventitious Candida albicans cell Wall proteins. 1997, Microbiology, 143:313–20.</p> <p>2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.</p> |
| <b>Purity</b>         |  <p>SDS-PAGE analysis (12.5%) of 3 µL of recombinant enolase. Purity is &gt; 98% as</p>                                                                                                                                                                                  |

determined by gel electrophoresis.

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