

## Recombinant Human ENO3, His-tagged

Cat. No. ENO3-28563TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human ENO3 with an N terminal His tag ; predicted MWt: 49 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	434 amino acids
<b>Description</b>	<p>This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme is found in skeletal muscle cells in the adult where it may play a role in muscle development and regeneration. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in this gene have been associated with glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been described.</p>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	49.000kDa inclusive of tags
<b>Tissue specificity</b>	<p>The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.</p>
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 20% Glycerol, 0.58% Sodium chloride
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MGSSHHHHHSSGLVPRGSHMAMQKIFAREILDSRGNPTVEVDLHTAKGRFRAAV          PSGASTGIYEALELRDGDKGRYLGKGVLKAVENINSTLGPALLQKKLSVADQEKVVK          FMIELDGTENKSKFGANAILGVSLAVCKAGAAEKGVPLYRHIADLAGNPDLILPVPAF          NVINGGSHAGNKLAMQEFMILPVGASSFKEAMRIGAEVYHHLKGVKAKYKGDATNV          GDEGGFAPNILENNEALELLKTAIQAAGYPDKVIGMDVAASEFYRNGKYDLDFKSP          DDPARHITGEKLGELYKSFKNYPVVSIEDPFDQDDWATWTSFLSGVNIQIVGDDLTV          TNPKRIAQAVEKKACNCLLLKVNQIGSVTESIQACKLAQSNGWGVMVSHRSGETED          TFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIIEALGDKAIFAGRKFRNPKAK</p>
<b>Sequence Similarities</b>	Belongs to the enolase family.

## GENE INFORMATION

<b>Gene Name</b>	ENO3 enolase 3 (beta, muscle) [ Homo sapiens ]
<b>Official Symbol</b>	ENO3
<b>Synonyms</b>	ENO3; enolase 3 (beta, muscle); enolase 3, (beta, muscle); beta-enolase;
<b>Gene ID</b>	2027
<b>mRNA Refseq</b>	NM_001193503

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<b>Protein Refseq</b>	NP_001180432
<b>MIM</b>	131370
<b>Uniprot ID</b>	P13929
<b>Chromosome Location</b>	17pter-p11
<b>Pathway</b>	Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem;
<b>Function</b>	lyase activity; magnesium ion binding; phosphopyruvate hydratase activity; protein heterodimerization activity; protein homodimerization activity;

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