

Recombinant Human ENO3, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human ENO3 with an N terminal His tag ; predicted MWt: 49 kDa.
Species	Human
Source	E.coli
ProteinLength	434 amino acids
Description	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 be associated glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been described.
Conjugation	HIS
Molecular Weight	49.000kDa inclusive of tags
Tissue specificity	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.
Form	Liquid

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

GENE INFORMATION

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

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

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