

Recombinant Human Enolase 3 (beta, muscle), His-tagged

Cat. No. ENO3-2498H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ENO3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 49 kDa.
Species	Human
Source	E.coli
ProteinLength	1-434aa
Description	ENO3 is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in skeletal muscle cells in the adult. ENO3 play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway. Mutations in its gene can be associated with metabolic myopathies that may result from decreased stability of the enzyme.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl.
Molecular Mass	49 kDa (454aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAMQKIFARE IL DSRGNPTV EVDLHTAKGR FRAAVPSGAS TGIYEALRLR DGDKGRYLGK GVLKAVENIN STLGPALLQK KLSVADQEKV DKFMIELDGT ENKSKFGANA ILGVSLAVCK AGAAEKGVPL YRHIADLAGN PDLILPVPAP NVINGGSHAG NKLAMQEFMI LPVGASSFKE AMRIGAEVYH HL KGVKAKY GKDATNVGDE GGFAPNILEN NEALELLKTA

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IQAAGYPDKV VIGMDVAASE FYRNGKYDLD FKSPDDPARH ITGEKLGELY
 KSFIGNYPVV SIEDPFDQDD WATWTSFLSG VNIQIVGDDL TVTNPKRIAQ
 AVEKKACNCL LLKVNQIGSV TESIQAACKLA QSNGWGMVS HR SGETEDTF
 IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEALGDK AIFAGRKFRN PKAK

Purity >95% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

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; muscle-specific enolase; skeletal muscle enolase; 2-phospho-D-glycerate hydrolyase; MSE; GSD13;

Gene ID 2027

mRNA Refseq NM_001193503

Protein Refseq NP_001180432

MIM 131370

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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; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem;
Function	lyase activity; magnesium ion binding; phosphopyruvate hydratase activity; protein heterodimerization activity; protein homodimerization activity;

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