OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR50087PU-S

Enolase beta (1-434, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Enolase beta (1-434, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MAMQKIFARE ILDSRGNPTV EVDLHTAKGR FRAAVPSGAS TGIYEALELR DGDKGRYLGK GVLKAVENIN STLGPALLQK KLSVADQEKV DKFMIELDGT ENKSKFGANA ILGVSLAVCK AGAAEKGVPL YRHIADLAGN PDLILPVPAF NVINGGSHAG NKLAMQEFMI LPVGASSFKE AMRIGAEVYH HLKGVIKAKY GKDATNVGDE GGFAPNILEN NEALELLKTA IQAAGYPDKV VIGMDVAASE FYRNGKYDLD FKSPDDPARH ITGEKLGELY KSFIKNYPVV SIEDPFDQDD WATWTSFLSG VNIQIVGDDL TVTNPKRIAQ AVEKKACNCL LLKVNQIGSV TESIQACKLA QSNGWGVMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEALGDK AIFAGRKFRN PKAK
Tag:	His-tag
Predicted MW:	49 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 0.1M NaCl
Bioactivity:	Specific: > 1.5 units/ml. One unit will convert 1.0 umole of 2 - phosphoglycerate to phospho(enol)pyruvate per minute at pH 7.5 at 25°C. **Activity Assay**: 1. Prepare 1,450 ul assay buffer. The final concentrations are 81 mM Triethanolamine, 1.9 mM 2 - phosphoglycerate, 0.12 m M beta - NADPH , 25 mM magnesium sulfate, 100 mM potassium chloride, 1.3 mM ADP, 4 unit pyruvate kinase , 6 unit L - lactic dehydrogenase. 2. Add 50 ul of recombinant beta - enolase protein in various concentrations (0.25 ug, 0.1 ug, 0.5 ug) in assay buffer. 3. Mix by inversion and load 200 ul of reaction mix in to a plate well . 4. Record the decrease in A 340 nm for 5 minutes at 25°C.
Preparation:	Liquid purified protein

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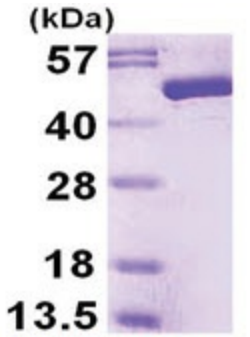
Protein Description:	Recombinant human ENO3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001180432
Locus ID:	2027
UniProt ID:	P13929
Cytogenetics:	17p13.2
Synonyms:	GSD13; MSE
Summary:	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. [provided by RefSeq, Jul 2010]
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation

Product images:



15% SDS-PAGE (3ug)