

Product datasheet for **AR09287PU-L**

Alpha-enolase / ENO1 (1-434) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Alpha-enolase / ENO1 (1-434) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSILKIHARE IFDSRGNPTV EVDLFTSKGL FRAAVPSGAS TGIYEALRLR DNDKTRYMGK GVSKAVEHIN KTIAPALVSK KLVNTEQEKI DKLMIEMDGT ENKSKFGANA ILGVSLAVCK AGAVEKGVPL YRHIADLAGN SEVILPVPF NVINGGSHAG NKLAMQEFMI LPVGAANFRE AMRIGAEVYH NLKNVIKEY GKDATNVGDE GGFAPNILEN KEGLELLKTA IGKAGYTDKV VIGMDVAASE FFRSGKYDL DFKSPDDPSRY ISPDQLADLY KSFIDYDYPV SIEDPFDQDD WGAWQKFTAS AGIQVVGDDL TVTNPKRIAK AVNEKSCNCL LLKVNQIGSV TESLQACKLA QANGWGVMS HRSGETEDTF IADLVGLCT GQIKTGAPCR SERLAKYNQL LRIEELGSK AKFAGRNFN PLAK
Predicted MW:	47.1 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 7.5) containing 1 mM MgSO ₄ , 10% Glycerol
Bioactivity:	Specific: > 20,000 pmol/min/μg, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37°C.

Activity Assay

1. Prepare 180 μl assay buffer into a suitable container: The concentrations are 80 mM Triethanolamine (pH 6.5), 0.3 mM 2-phosphoglycerate, 0.2 mM beta-NADH, 25 mM magnesium sulfate, 100 mM potassium chloride, 1.2 mM ADP, 3.5 unit pyruvate kinase, 5 unit L-lactic dehydrogenas.
2. Equilibrate to 37°C and monitor at A340nm until the value is constant using a spectrophotometer.
3. Add 20 μl of recombinant a-enolase protein 10 μg/ml in assay buffer.
4. Record the decrease in A340nm for 5 minutes at 37°C

Endotoxin: < 1.0 EU per 1 μg of protein (determined by LAL method)



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Preparation:	Liquid purified protein
Protein Description:	Recombinant Human Alpha-enolase was expressed in <i>E.coli</i> and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001188412
Locus ID:	2023
UniProt ID:	P06733
Cytogenetics:	1p36.23
Synonyms:	ENO1L1; HEL-S-17; MPB1; NNE; PPH
Summary:	This gene encodes alpha-enolase, one of three enolase isoenzymes found in mammals. Each isoenzyme is a homodimer composed of 2 alpha, 2 gamma, or 2 beta subunits, and functions as a glycolytic enzyme. Alpha-enolase in addition, functions as a structural lens protein (tau-crystallin) in the monomeric form. Alternative splicing of this gene results in a shorter isoform that has been shown to bind to the c-myc promoter and function as a tumor suppressor. Several pseudogenes have been identified, including one on the long arm of chromosome 1. Alpha-enolase has also been identified as an autoantigen in Hashimoto encephalopathy. [provided by RefSeq, Jan 2011]
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation

Product images: