

Recombinant Human ENO1 Protein

Cat. No. ENO1-022H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human ENO1 protein (1-434) without tag was purified from E. coli citrullinated by PAD4.
Species	Human
Source	E.coli
ProteinLength	1-434
Description	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.
Molecular Mass	47.74 kDa
Purity	≥90% as determined by SDS-PAGE
Stability	≥ 6 months

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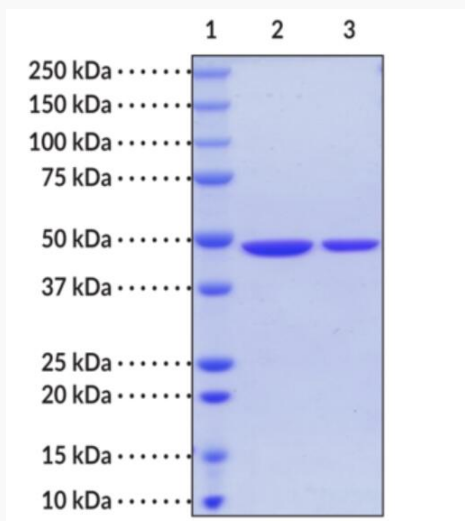
Storage	At -80 centigrade.
Storage Buffer	TBS, pH 7.4
GENE INFORMATION	
Gene Name	ENO1 enolase 1 [Homo sapiens (human)]
Official Symbol	ENO1
Synonyms	ENO1; enolase 1; NNE; PPH; MPB1; ENO1L1; HEL-S-17; alpha-enolase; c-myc promoter-binding protein-1; 2-phospho-D-glycerate hydro-lyase; MYC promoter-binding protein 1; alpha enolase like 1; enolase 1, (alpha); enolase-alpha; epididymis secretory protein Li 17; non-neural enolase; phosphopyruvate hydratase; plasminogen-binding protein; tau-crystallin; EC 4.2.1.11
Gene ID	2023
mRNA Refseq	NM_001428
Protein Refseq	NP_001419
MIM	172430
UniProt ID	P06733

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**SDS-PAGE analysis
of citrullinated α -
enolase**

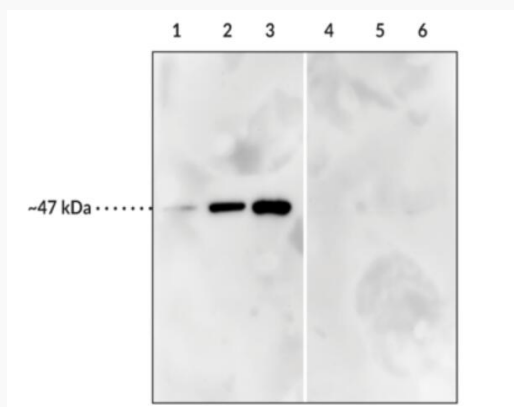


Lane 1: MW Markers

Lane 2: 4 μ g α -enolase (PAD4 Citrullinated)

Lane 3: 2 μ g α -enolase (PAD4 Citrullinated)

**WB analysis of α -
enolase citrullination**



Lane 1: Citrullinated α -enolase (20 ng)

Lane 2: Citrullinated α -enolase (100 ng)

Lane 3: Citrullinated α -enolase (400 ng)

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Lane 4: α -enolase (20 ng)

Lane 5: α -enolase (100 ng)

Lane 6: α -enolase (400 ng)

α -enolase and Citrullinated α -enolase were reacted with Citrullinated α -enolase Monoclonal Antibody and detected using Goat Anti-Mouse IgG HRP.

Identification of modified sites in Citrullinated α -enolase.

MSILKIHARE	IFDSRGNPTV	EVDLFTSKGL	FRAAVPSGAS	TGIYEALER
DNDKTRYMGK	GVSKAVEHIN	KTIAPALVSK	CLNVTEQEKI	DKLMIEMDGT
ENKSKFGANA	ILGVSLAVCK	AGAVEKGVPL	YRHIADLAGN	SEVILPVPAP
NVINGGSHAG	NKLAMQEFMI	LPVGAANFRE	AMRIGAEVYH	NLKNVIKEY
GKDATNVGDE	GGFAPNILEN	KEGLELLKTA	IGKAGYTDKV	VIGMDVAASE
FFRSGKYDLD	FKSPDDPSRY	ISPDQLADLY	KSFIKDYPPV	SIEDPFDQDD
WGAWQKFTAS	AGIQVVGDDL	TVTNPKRIAK	AVNEKSCNCL	LLKVNQIGSV
TESLQACKLA	QANGWGMVMS	HRSGETEDTF	IADLVVGLCT	GQIKTGAPCR
SERLAKYNQL	LRIEEELGSK	AKFAGRNFN	PLAK	

Citrullinated α -enolase was detected by LC-MS/MS and analyzed using Mascot and Scaffold PTM sofware. Deiminated arginines are indicated in teal.

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