

Human Recombinant Beta-Enolase

CATALOG #:	6364-50	50 µg
ALTERNATE NAMES:	ENO3, MSE.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	49 kDa (454 aa, 1-434 aa + NT His Tag)	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 1 mM DTT, 20% glycerol and 0.1 mM NaCl.	

STORAGE CONDITIONS:

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.

DESCRIPTION:

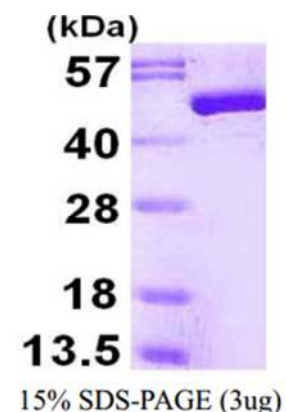
Beta-enolase, also known as ENO3, is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in skeletal muscle cells in the adult. ENO3 play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway. Mutations in its gene can be associated with metabolic myopathies that may result from decreased stability of the enzyme. Recombinant human ENO3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MAMQKIFARE ILDSRGNPTV EVDLHTAKGR
FRAAVPSGAS TGIYEALRLR DGDKGRYLGK GVLKAVENIN STLGPALLQK KLSVADQEKV
DKFMIELDGT ENKSKFGANA ILGVSLAVCK AGAAEKGVPL YRHIADLAGN PDLILPVPAF
NVINGGSHAG NKLAMQEFMI LPVGASSFKE AMRIGAEVYH HLKGVKAKY GKDATNVGDE
GGFAPNILEN NEALELLKTA IQAAGYPAKV VIGMDVAASE FYRNGKYDLD FKSPDDPARH
ITGEKLGELY KSFKNYPVV SIEDPFDQDD WATWTSFLSG VNIQIVGDDL TVTNPKRIAQ
AVEKKACNCL LLKVNQIGSV TESIQAACKLA QSNWGVMSV HRSGETEDTF IADLVVGLCT
GQIKTGAPCR SERLAKYNQL MRIEEALGDK AIFAGRKFRN PKAK

BIOLOGICAL ACTIVITY:

Specific activity: > 1.5 units/ml. One unit will convert 1.0 µmole of 2-phosphoglycerate to phosphoenol pyruvate per minute at pH 7.5 at 25°C.



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RELATED PRODUCTS:

- Human Recombinant NSE (Cat. No. 6362-100)
- Human Recombinant Alpha-Enolase (Cat. No. 6363-100)

FOR RESEARCH USE ONLY! Not to be used in humans.