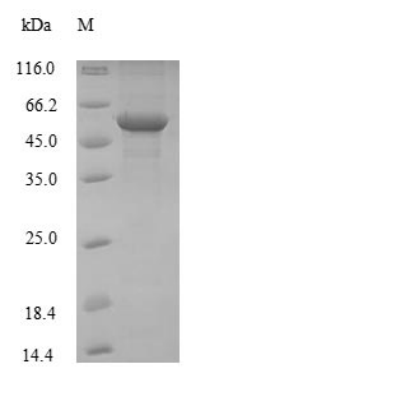
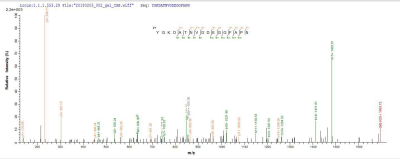
Recombinant Mouse Alpha-enolase (Eno1), partial

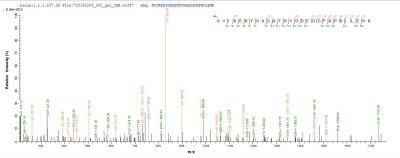
Product Code	CSB-EP007670MOb0
Relevance	Multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P17182
Alias	2-phospho-D-glycerate hydro-lyase Enolase 1 Non-neural enolase
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SILRIHAREIFDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDNDKTR FMGKGVSQAVEHINKTIAPALVSKKVNVVEQEKIDKLMIEMDGTENKSKFGANA ILGVSLAVCKAGAVEKGVPLYRHIADLAGNPEVILPVPAFNVINGGSHAGNKLA MQEFMILPVGASSFREAMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNI LENKEALELLKTAIAKAGYTDQVVIGMDVAASEFYRSGKYDLDFKSPDDPSRYI TPDQLADLYKSFVQNYPVVSIEDPFDQDDWGAWQKFTASAGIQVVGDDLTVT NPKRIAKAASEKSCNCLLLKVNQIGSVTESLQACKLAQSNGWGVMVSHRSGE TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQILRIEEELGSKAKFAGRSFRN PLA
Lead Time	3-7 business days
Research Area	Signal Transduction
Source	E.coli
Gene Names	Eno1
Expression Region	2-433aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	50.4kDa
Protein Description	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP007670MOb0 could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Eno1.



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Description

Like all recombinant proteins, this Recombinant Mouse Eno1 protein was encoded by recombinant DNA. The recombinant DNA was introduced to a plasmid in which the gene of Eno1 was cloned downstream of a promoter region. When the plasmid was introduced to the cells of E.coli, the E.coli's own protein synthesis pathways would then result in the expression of the Eno1 protein. And the next step was protein purification. The purity of this recombinant protein is 90%+ determined by SDS-PAGE.

Eno1 is a protein encoding gene that provides an instruction in making a protein named alpha-enolase (also commonly known as enolase 1). The protein encoded by this gene is a key glycolytic enzyme in the cytoplasm of prokaryotic and eukaryotic cells and catalyzes the dehydratation of 2-phosphoglycerate to phosphoenolpyruvate in the last steps of the catabolic glycolytic pathway. It is expressed on the surface of several cell types and acts as a plasminogen receptor, particularly in tumors, contributing to cancer cell proliferation, migration, invasion, and metastasis. This protein is considered a multifunctional protein.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.