

ENO1 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	NNE;HEL-S-17;PPH;MPB1;enolase 1, (α);enolase 1, (alpha);ENO1L1
Protein Construction:	Met1-Lys434
Species:	Human
Expression Host:	E. coli
Accession:	P06733
Molecular Weight:	48 kDa (Predicted); 45-55 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 250 mM NaCl, 1mM MgSO ₄ , 20% Glycerol, 5% Trehalose, 5% Mannitol, 0.02% Tween80, pH 7.5.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Alpha-enolase, also known as MPB-1, NNE, Enolase 1, belongs to the enolase family. Mammalian enolase is composed of 3 isozyme subunits, alpha, beta and gamma, which can form homodimers or heterodimers which are cell-type and development-specific. ENO1 interacts with PLG in the neuronal plasma membrane and promotes its activation. The C-terminal lysine is required for this binding. Isoform MBP-1 interacts with TRAPPC2B. ENO1 interacts with ENO4 and PGAM2. The alpha/alpha homodimer of ENO1 is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons. During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells. 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 and may also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of

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plasminogen on the cell surface of several cell-types such as leukocytes and neurons. ENO1 also stimulates immunoglobulin production.

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