A Reliable Research Partner in Life Science and Medicine

## Recombinant Human NSE/ENO2 Protein (His Tag)

Catalog No. PKSH033672

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

**Synonyms** Gamma-enolase;2-phospho-D-glycerate hydro-lyase;Enolase 2;Neural

enolase;Neuron-specific enolase;NSE;ENO2

**Species** Human **Expression Host** E.coli

**Sequence** Met1-Leu434

P09104 Accession Calculated Molecular Weight 49.4 kDa Observed molecular weight 55 kDa Tag N-His

**Bioactivity** Not validated for activity

### **Properties**

Purity > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage** 

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 8% Sucrose, 0.05%

Tween 80, pH 7.0.

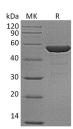
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

# **Background**

## For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

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#### **Elabscience Bionovation Inc.**



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Gamma-enolase; also known as Enolase 2; belongs to the enolase family. The alpha/alpha homodimer of ENO2 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. Levels of ENO2 increase dramatically in cardiovascular accidents; cerebral trauma; brain tumors and Creutzfeldt-Jakob disease. ENO2 has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. It binds to cultured neocortical neurons and promotes cell survival in a calcium-dependent manner.

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