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Recombinant Human NSE/ENO2 Protein

Catalog No.: RP02827 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2026	P09104

Tags
N-His

Synonyms
Gamma-enolase; 2-phospho-D-glycerate hydro-lyase; Enolase 2; Neural enolase; Neuron-specific enolase; NSE; ENO2

Product Information

Source
E. coli

Purification
> 80% as determined by by reducing SDS-PAGE.

Endotoxin
<1EU/μg

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM Tris-HCl, 100mM KCl, 5mM MgSO4, pH 7.5.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

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.

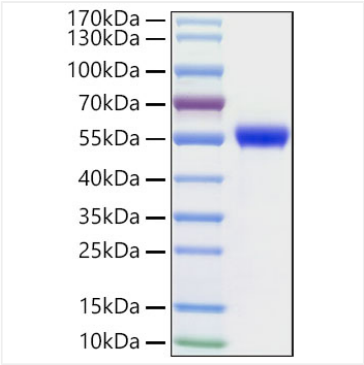
Basic Information

Description
Recombinant Human NSE/ENO2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Leu434) of human NSE/ENO2 (Accession #NP_001966.1) fused with a 6×His tag at the N-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80°C for long term.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human NSE/ENO2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55 kDa.