

Product datasheet

Recombinant human NSE protein ab168023

[1 References](#) [1 Image](#)

Overview

Product name	Recombinant human NSE protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	P09104
Species	Human

Sequence	<p>MSIEKIWARE ILDSRGNPTV EVDLYTAKGL FRAAVPSGAS TGIYEALELR DGDKQRYLGK GVLKAVDHIN STIAPALISS GLSVVEQEKL DNLMLELDGT ENKSKFGANA ILGVSLAVCK AGAAERELPL YRHIAQLAGN SDLILPVPF NVINGGSHAG NKLAMQEFMI LPVGAESFRD AMRLGAEVYH TLKGVIKDKY GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI VIGMDVAASE FYRDGKYDLD FKSPTDPSRY ITGDQLGALY QDFVRDYPVV SIEDPFDQDD WAAWSKFTAN VGIQVGDLL TVTNPKRIER AVEEKACNCL LLKVNQIGSV TEAIQACKLA QENGWGVMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEELGDE ARFAGHNFRN PSVL</p>
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Molecular weight	47 kDa
Amino acids	1 to 434

Specifications

Our [Abpromise guarantee](#) covers the use of **ab168023** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity Specific activity: >8 units/ml. One unit will convert 1.0 μ mole of 2-phosphoglycerate to

phosphoenol pyruvate per minute at pH 7.5 at 25°C.

Applications

SDS-PAGE

Functional Studies

Endotoxin level

< 1.000 Eu/μg

Purity

>95% by SDS-PAGE .

Form

Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.75% Potassium chloride, 0.32% Tris HCl, 0.06% Magnesium sulphate

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival.

Tissue specificity

The alpha/alpha homodimer 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.

Pathway

Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.

Sequence similarities

Belongs to the enolase family.

Developmental stage

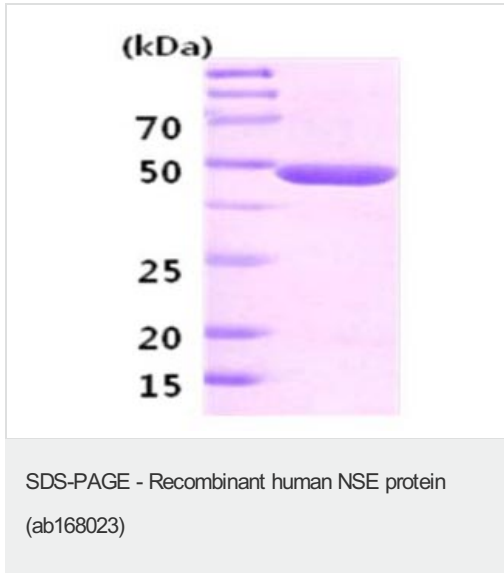
During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.

Cellular localization

Cytoplasm. Cell membrane. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form.

Images

15% SDS-PAGE analysis of 3µg ab168023.



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