

Datasheet for ABIN934970
ENO2/NSE Protein (AA 1-434)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	ENO2/NSE (ENO2)
Protein Characteristics:	AA 1-434
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Sequence: MSIEKIWARE ILDSRGNPTV EVDLYTAKGL FRAAVPSGAS TGIYEALRLR DGDKQRYLGK
GVLKAVDHIN STIAPALISS GLSVVEQEKL DNLMLELDGT ENKSKFGANA ILGVSLAVCK
AGAAERELPL YRHIAQLAGN SDLILPVPF NVINGGSHAG NKLAMQEFMI LPVGAESFRD
AMRLGAEVYH TLKGVKDKY GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI
VIGMDVAASE FYRDGKYDLD FKSPTDPSRY ITGDQLGALY QDFVRDYPVV SIEDPFDQDD
WAAWSKFTAN VGIQIVGDDL TVTNPKRIER AVEEKACNCL LLKVNQIGSV TEAIQACKLA
QENGWGMVMS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEELGDE
ARFAGHNFRN PSVL

Characteristics: Purified recombinant Human NSE protein
Expression System: E.coli
Bioactivity: Specific activity: > 8 units/mL. One unit will convert 1.0 m of 2-phosphoglycerate to phospho(enol)pyruvate per minute at pH 7.5 at 25C

Product Details

Molecular weight on SDS-PAGE will appear higher.

Purity: > 95 % pure

Endotoxin Level: < 1.0 EU per µg of protein (determined by LAL method)

Target Details

Target: ENO2/NSE (ENO2)

Alternative Name: NSE ([ENO2 Products](#))

Background: Neuron-specific enolase (NSE) is a glycolytic isoenzyme which is located in central and peripheral neurons and neuroendocrine cells. This enzyme is released into the CSF when neural tissue is injured. Neoplasms derived from neural or neuroendocrine tissue may release NSE into the blood. NSE is a useful substance that has been detected in patients with certain tumors, namely: neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma. Recombinant NSE was expressed in *E. coli* and purified by conventional chromatography techniques.

Alternative Names: ENO2 protein, Enolase 2 gamma neuronal protein, neuronal) protein, Neuron specific enolase protein, Neuron specific gamma enolase protein, NSE protein, Gamma enolase protein, 2 phospho D glycerate hydrolyase protein, ENOG protein, Neuron-Specific Enolase protein, Eno 2 protein, Neurone specific enolase., Enolase 2 (gamma protein, Neural enolase protein, Enolase2 protein

Molecular Weight: 47 kDa (434 AA)

Application Details

Application Notes: NSE protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Supplied as a liquid in 20 mM Tris, pH 7.5, containing 0.1 M KCl, and 5 mM MgSO₄.

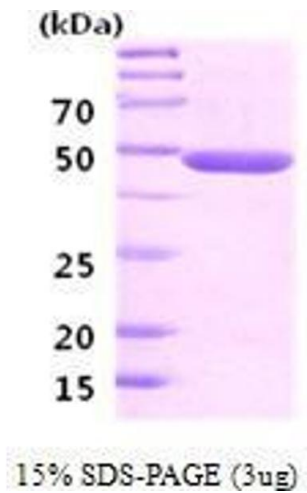
Handling Advice: Avoid repeated freeze/thaw cycles.

Handling

Storage: RT/-20 °C

Storage Comment: Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or -70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.