

Neuron-Specific Enolase (NSE) Active Protein | NSE active protein

Neuron-Specific Enolase (NSE), 1-434aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA11754	HOST E Coli	APPLICATIONS SDS-Page
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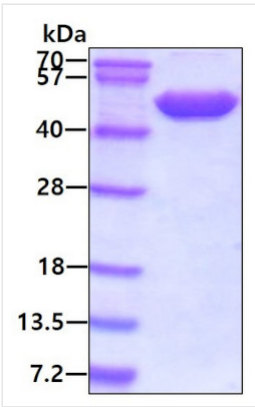
PRODUCT SYNONYMS

Neuron-Specific Enolase (NSE); 1-434aa; Human; E Coli (Bioactivity Validated); Enolase 2 (gamma; neuronal); ENO2; NSE; Neuron-Specific Enolase; 2 phospho D glycerate hydrolyase; Eno 2; ENOG; Enolase 2 gamma neuronal; Enolase2; Gamma enolase; Neural enolase; Neuron specific enolase; Neuron specific gamma enolase; Neurone specific enolase.; NSE active protein

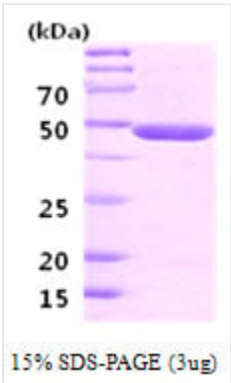
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in 20 mM Tris pH 7.5, 0.1 M KCl, 5 mM MgSO4
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MSIEKIWARE ILDSRGNPTV EVDLYTAKGL FRAAVPSGAS TGIYEALRLR DGDQKQRYLGK GVLKAVDHIN STIAPALISS GLSVVEQEKL DNLMLELDGT ENKSKFGANA ILGVSLAVCK AGAAERELPL YRHIAQLAGN SDLILPVPAF NVINGGSHAG NKLAMQEFMI LPVGAESFRD AMRLGADEVYH TLKGVIKDKY GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI VIGMDVAASE FYRDGKYDLD FKSPDPSRY ITGDQLGALY QDFVRDYPVV SIEDPFDQDD WAAWSKFTAN VGIQIVGDDL TVTNPRIER AVEEKACNCL LLKVNQIGSV TEAIQACKLA QENGWGMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEELGDE ARFAGHNFRN PSVL
Sequence Length	434
Applicable Applications for NSE active protein	Enzyme Activity, SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 25,000pmol/min/ug, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37C.
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for NSE active protein	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.
Product Categories/Family for NSE active protein	Neuroscience
References	T Kirino., et al. (1983). J. Neuroscience. 3, 915-923; Johnson DH., et al. (1984). Cancer Res. 44 (11):5409-14;

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803011
NCBI GeneID	2026
NCBI Accession #	NP_001966
NCBI GenBank Nucleotide #	NM_001975.2
UniProt Accession #	P09104; Q96J33; B7Z2X9
Molecular Weight	47 kDa (434 aa), confirmed by MALDI-TOF.
NCBI Official Full Name	gamma-enolase
NCBI Official Synonym Full Names	enolase 2
NCBI Official Symbol	ENO2
NCBI Official Synonym Symbols	NSE; HEL-S-279
NCBI Protein Information	gamma-enolase
UniProt Protein Name	Gamma-enolase
UniProt Gene Name	ENO2
UniProt Synonym Gene Names	NSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

