

Enolase, Neuron Specific (NSE) Recombinant Protein | NSE recombinant protein

Recombinant Enolase, Neuron Specific (NSE)

CATALOG # AAA134191	HOST E.coli	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Enolase; Neuron Specific (NSE); Recombinant Enolase; NSE recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	> 80%
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Concentration	Original Concentration: 650ug/mL (varies by lot)
Applicable Applications for NSE recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Ser2~Arg285
Tags	N-terminal His Tag
Subcellular Location	Membrane, Cytoplasm
Predicted isoelectric point	4.8
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE

SIEKIWARE ILDSRQNPV EVDLYTAKGL FRAAVPSGAS TGIYEALRL
DGDQRYLGG GVLKAVDHIN STIAPALISS GLSVVEQEKL DNLMLELDGT
ENKSKFGANA ILGVSLAVCK AGAAERELPL YRHIAQLAGN SDLILPVPAF
NVIINGGSHAG NKLAMQEFMI LPVGAESFRD AMRLGAEVYH TLKGVIKDKY
GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI VIGMDVAASE
FYRDGKYDLD FKSPIDPSRY ITGDQLGALY QDFVR

Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803011
NCBI GeneID	2026
NCBI Accession #	NP_001966.1
NCBI GenBank Nucleotide #	NM_001975.2
UniProt Accession #	P09104; Q96J33
Molecular Weight	Predicted Molecular Mass: 31.9kDa Accurate Molecular Mass: 48kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	gamma-enolase
NCBI Official Synonym Full Names	enolase 2 (gamma, neuronal)
NCBI Official Symbol	ENO2
NCBI Official Synonym Symbols	NSE; HEL-S-279
NCBI Protein Information	gamma-enolase; neural enolase; neuron-specific enolase; neurone-specific enolase; neuron specific gamma enolase; 2-phospho-D-glycerate hydrolyase; 2-phospho-D-glycerate hydro-lyase; epididymis secretory protein Li 279
UniProt Protein Name	Gamma-enolase
UniProt Gene Name	ENO2
UniProt Synonym Gene Names	NSE
UniProt Entry Name	ENOG_HUMAN

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.