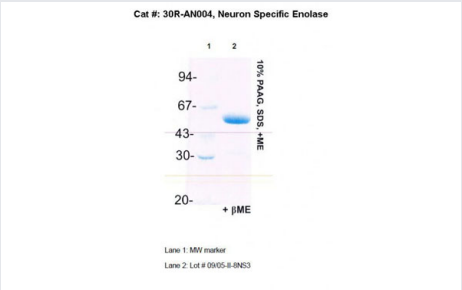
NSE Native Protein

PRODUCT OVERVIEW

Product Name	NSE, Native Protein
Full Product Name	NSE protein
Product Gene Name	NSE native protein
Product Synonym Names	Neural enolase protein; Enolase 2 gamma neuronal protein; Neuron Specific Enolase protein; Neuron specific enolase protein; Enolase 2 protein; gamma-enolase protein; Enolase2 protein; Neuron specific gamma enolase protein; gamma enolase protein
Host	Human
Form/Format	Frozen liquid in 100mM Tris-HCl, with 5 mM Mg_2SO_4, and 250mM KCl, pH 5.1 adjusted with sodium phosphate.
Purity/Purification	> 95% by SDS-PAGE NSE protein was purified using Ion-exchange chromatography and gel-filtration.
Concentration	0.81mg/ml (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Avoid repeated Freeze/Thaw cycles Shipping: Ships with Dry Ice.
Molecular Weight	47,141 Da
3D Structure	ModBase 3D Structure for P07323
Source	Post mortem human brain
Protein Type	Native
Biohazard Information	Blood sample from the tissue donor was tested and found negative for HBsAg, HCV, HIV-1 and 2 antibodies and syphilis
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for NSE native protein	Neuroscience; Native Protein
Applications Tested/Suitable for NSE native protein	User optimized
Related Product Information for NSE native protein	MBS537040 is a native protein targeting NSE. Also known as NSE protein. Host: Human. Purified native Human NSE protein
Other Notes	Small volumes of NSE native protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-PAGE of NSE native protein
This is a representative image of one lot of the NSE protein. Appearance of the protein on SDS-PAGE gels will vary from lot to lot.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSE. It may not necessarily be applicable to this product.

NCBI GI #	2465396
NCBI GeneID	24334
NCBI Accession #	AAB72088.1
UniProt Primary Accession #	P07323
UniProt Related Accession #	P07323
NCBI Official Full Name	neuron-specific enolase
NCBI Official Synonym Full Names	enolase 2, gamma, neuronal
NCBI Official Symbol	Eno2
NCBI Official Synonym Symbols	NSE; RNEN3
UniProt Protein Name	Gamma-enolase
UniProt Synonym Protein Names	2-phospho-D-glycerate hydro-lyase; Enolase 2; Neural enolase; Neuron-specific enolase; NSE
Protein Family	Gamma-enolase
UniProt Gene Name	Eno2
UniProt Synonym Gene Names	Eno-2; NSE
UniProt Entry Name	ENOG_RAT
NCBI Protein Information	gamma-enolase
NCBI Summary for NSE	catalyzes the interconversion of 2-phosphoglycerate to phosphoenolpyruvate; may play a role in glycolysis [RGD, Feb 2006]
UniProt Comments for NSE	ENO2: an enzyme with 2-phospho-D-glycerate hydro-lyase activity. One of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates. Protein type: Lyase; Carbohydrate Metabolism - glycolysis and gluconeogenesis; EC 4.2.1.11 Cellular Component: extracellular space; neuron projection; photoreceptor inner segment; phosphopyruvate hydratase complex; cell soma; cytoplasm; perikaryon; intracellular; myelin sheath Molecular Function: protein homodimerization activity; protein heterodimerization activity; magnesium ion binding; phosphopyruvate hydratase activity Biological Process: response to drug; glycolysis; response to organic cyclic substance; response to estradiol stimulus; gluconeogenesis

Research Articles on NSE	**1.** Hyperglycemia may impair mitochondrial function and alter glycolysis in glomerular epithelial cells by down-regulating the expression of ATP synthase beta subunit and enolase 2.
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