

NSE recombinant protein

NSE Protein (Active)

CATALOG # AAA59093	HOST E Coli	APPLICATIONS SDS-Page, ELISA
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PRODUCT SYNONYMS

NSE; NSE Protein (Active); Neuron Specific Enolase; NSE recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% by SDS-PAGE
Form/Format	Lyophilized
Applicable Applications for NSE recombinant protein	SDS-PAGE, ELISA
Storage Buffer	Each vial contains 10 mM Tris-HCl (pH8.0 ± 0.2) with 0.05% NaN ₃ .
Preparation and Storage	Upon receipt, aliquot and store at -20°C or -80°C for long term. Avoid repeated freeze and thaw cycles

ADDITIONAL INFORMATION

Related Product Information for NSE recombinant protein	Recombinant full length human NSE protein with molecular weight 56 kDa. The enolases (phosphopyruvate hydratase) catalyze the interconversion of 2-phosphoglycerate to phosphoenolpyruvate in the glycolytic pathway. The functional enzyme is a dimer made up of subunits referred to as alpha, beta, and gamma. Gamma-enolase, also known as enolase 2 (ENO2) or neuron specific enolase (NSE), is an enzyme that in humans is encoded by the ENO2 gene. ENO2 is the major form found in mature neurons and in cells of neuronal origin. The homozygous deletions in passenger genes in cancer deletions can expose cancer-specific therapeutic vulnerabilities when the collaterally deleted gene is a member of a functionally redundant family of genes carrying out an essential function. The glycolytic gene ENO1 in the 1p36 locus is deleted in glioblastoma, which is tolerated by the expression of ENO2. The short-hairpin-RNA-mediated silencing of ENO2 selectively inhibits growth, survival and the tumorigenic potential of ENO1-deleted GBM cells, and that the enolase inhibitor phosphonoacetohydroxamate is selectively toxic to ENO1-deleted GBM cells relative to ENO1-intact GBM cells or normal astrocytes.
References	1. Muller, F. L., Colla, S., Aquilanti, E., Manzo, V. E., Genovese, G., Lee, J., Eisenson, D., Narurkar, R., Deng, P., Nezi, L., Lee, M. A., Hu, B., and 10 others. Passenger deletions generate therapeutic vulnerabilities in cancer. Nature 488: 337-342, 2012.

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.