Recombinant human Enolase 2/ENO2 protein

Catalog Number: NSE0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-434aa

UniProt No.
P09104

NCBI Accession No.
NP_001966.1

Alternative Names
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.

PRODUCT SPECIFICATION

Molecular Weight
47.2 kDa (434aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1 M KCl, 5mM MgSO4

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug 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.

Tag
Non-Tagged

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

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.

Amino acid Sequence

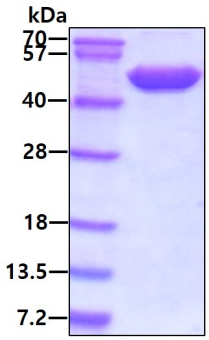
MSIEKIWARE ILDSRGNPTV EVDLYTAKGL FRAAVPSGAS TGIYEALELR DGDKQRYLGK GVLKAVDHIN STIAPALISS GLSVVEQEKL DNLMLELDGT ENKSKFGANA ILGVSLAVCK AGAAERELPL YRHIAQLAGN SDLILPVPAF NVINGGSHAG NKLAMQEFMI LPVGAESFRD AMRLGAEVYH TLKGVIKDKY GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI VIGMDVAASE FYRDGKYDLD FKSPTDPSRY ITGDQLGALY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

General References

T Kirino., et al.(1983). J. Neuroscience. 3, 915-923
Johnson DH., et al.(1984). Cancer Res. 44(11):5409-14

DATA

SDS-PAGE



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