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California Bioscience

Product Datasheet

Product Name	Neuron Specific Enolase Human Recombinant
Cata No	CB501366
Source	*Escherichia Coli.*
Synonyms	Gamma-enolase, EC 4.2.1.11, 2-phospho-D-glycerate hydro-lyase, Neural enolase, Neuron-specific enolase, NSE, Enolase 2, ENO2.

Description

Neuron-specificenolase also caled NSE is a glycolytic isoenzyme which is situated in central and peripheral neurons and neuroendocrine cells. Enolase-2 is released into the CSF when neural tissue is injured. Neoplasms derived from neural or neuroendocrine tissue release Enolase-2 into the blood. Enolase-2 is a useful substance that has been detected in patients with certain tumors, such as neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma. ENO2 is 1 of the 3 enolase isoenzymes found in mammals. ENO2 isoenzyme, is found in mature neurons and cells of neuronal origin. An exchange from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.
ENO2 Human Recombinant expressed in E. coli contains 434 amino acids and its Mw is 47 kDa.
The Enolase-2 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 98% as determined by SDS-PAGE.

Formulation

Enolase 2 is supplied in 20mM Tris pH-7.5, 0.1M KCl, 5mM $MgSO_4$.

Stability

Store at 4°C if entire vial will be used within 1-2 weeks.
Store, frozen at -20°C for longer periods of time.
Please prevent freeze-thaw cycles.

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

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