Product Data Sheet

Product Name:	ENO2 Mouse
Cat. No.:	GP21601
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AI837106; D6Ertd375e; Eno-2; NSE; 2-phospho-D-glycerate hydro-lyase; Enolase 2; Neural enolase; Neuron-specific enolase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSIEKIW AREILDSRGN PTVEVDLYTA KGLFRAAVPS GASTGIYEAL ELRDGDKQRY LGKGVLKAVD HINSRIAPAL ISSGISVVEQ EKLDNLMLEL DGTENKSKFG ANAILGVSLA VCKAGAAERD LPLYRHIAQL AGNSDLILPV PAFNVINGGS HAGNKLAMQE FMILPVGAES FRDAMRLGAE VYHTLKGVIK DKYGKDATNV GDEGGFAPNI LENSEALELV KEAIDKAGYT EKMVIGMDVA ASEFYRDGKY DLDFKSPADP SRYITGDQLG ALYQDFVRNY PVVSIEDPFD QDDWAAWSKF TANVGIQIVG DDLTVTNPKR IERAVEEKAC NCLLLKVNQI GSVTEAIQAC KLAQENGWGV MVSHRSGETE DTFIADLVVG LCTGQIKTGA PCRSERLAKY NQLMRIEEEL GDEARFAGHN FRNPSVL.		
Formulation	The ENO2 solution (1mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.		

Introduction

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.

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Biological Activity

Specific activity is > 10,000 pmol/min/?g, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37°C .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

ENO2 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 457 amino acids (1-434) and having a molecular mass of 49.7kDa.ENO2 is fused to a 23 amino acid His-tag at N-terminus& purified by proprietary chromatographic techniques.

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