

## 32-6737: ENO2 Mouse

**Application :** Functional Assay

**Alternative Name :** A1837106, D6ErtD375e, Eno-2, NSE, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase.

### Description

Source: Escherichia Coli.

Sterile Filtered clear colorless solution.

Neuron-specific enolase also called 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 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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 95% as determined by SDS-PAGE.

**Content :** The ENO2 solution (1mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMSEIKIW AREILDSRGN PTVEVDLYTA KGLFRAAVPS  
GASTGIYEAL ELRDGDKQRY LGKGV LKAVD HINSRIAPAL ISSGISVVEQ EKLDNLMLEL  
DGTENKSKFG ANAILGVSLA VCKAGAAERD LPLYRHIAQL AGNSDLILPV PAFNVINGGS  
HAGNKLAMQE FMILPVGAES FRDAMRLGAE VYHTLKGVK DKGKDATNV GDEGGFAPNI  
LENSEALELV KEAIDKAGYT EKMVIGMDVA ASEFYRDGKY DLDFKSPADP SRYITGDQLG  
ALYQDFVRNY PVVSIEDPFD QDDWAAWSKF TANVGIVG DDLTVTNPKR IERAVEEKAC  
NCLLLKVNQI GSVTEAIQAC KLAQENGWGV MVSHRSGETE DTFIADLVVG LCTGQIKTGA  
PCRSERLAKY NQLMRIEEEL GDEARFAGHN FRNPSVL.

### Application Note

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