

## Recombinant Human Benolase 2 (Gamma, Neuronal)

Cat. No. ENO2-1277H    Lot. No. (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b>    | Human Neurone Specific Enolase produced in Human CNS having a molecular mass of 45kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>         | 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. |
| <b>Form</b>                | The protein solution is in 0.01M NaH <sub>2</sub> PO <sub>4</sub> buffer pH 7.4 containing 0.15M NaCl and 0.005M MgSO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>              | Greater than 96.0%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Physical Appearance</b> | Sterile Filtered clear solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**Storage** Human NSE although stable at 4°C for 1 week, should be stored at -15°C.

## GENE INFORMATION

**Gene Name** ENO2 enolase 2 (gamma, neuronal) [ Homo sapiens ]

**Official Symbol** ENO2

**Synonyms**

ENO2; NSE; enolase 2 (gamma, neuronal); enolase 2; neural enolase; neurone-specific enolase; neuron specific gamma enolase; 2-phospho-D-glycerate hydrolyase; EC 4.2.1.11; 2-phospho-D-glycerate hydro-lyase; 2-phospho-D-glycerate hydrolyase; Neuron-specific enolase; enolase 2 (gamma, neuronal); neuron specific gamma enolase; neurone-specific enolase.

**Gene ID** 2026

**mRNA Refseq** NM\_001975

**Protein Refseq** NP\_001966

**MIM** 131360

**UniProt ID** P09104

**Chromosome Location** 12p13

**Function** lyase activity; magnesium ion binding; phosphopyruvate hydratase activity

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