

Product datasheet for **TP727610**

NSE (ENO2) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Gamma-enolase/NSE/ENO2(N-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Leu434
Tag:	N-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl,100mM KCl,5mM MgSO4,pH 7.5.
Note:	Recombinant Human Gamma-enolase is produced by our E.coli expression system and the target gene encoding Met1-Leu434 is expressed with a 6His tag at the N-terminus.
Stability:	12 months from date of despatch
Locus ID:	2026
UniProt ID:	P09104
Summary:	Gamma-enolase, also known as Enolase 2, belongs to the enolase family. The alpha/alpha homodimer of ENO2 is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons. During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells. Levels of ENO2 increase dramatically in cardiovascular accidents, cerebral trauma, brain tumors and Creutzfeldt-Jakob disease. ENO2 has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. It binds to cultured neocortical neurons and promotes cell survival in a calcium-dependent manner.



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