



Product Datasheet

Product Name	Neuron Specific Enolase Human Recombinant, His Tag
Cata No	CB500476
Source	<i>Escherichia Coli.</i>
Synonyms	Gamma-enolase, EC 4.2.1.11, 2-phospho-D-glycerate hydro-lyase, Neural enolase, Neuron-specific enolase, NSE, Enolase 2, ENO2.

Description

NSE is the $\gamma\gamma$ isoform of the glycolytic enzyme enolase and is expressed primarily in neurons, in normal and neoplastic neuroendocrine cells. NSE is a highly soluble cytoplasmic protein that is readily secreted into the CSF and serum following tissue damage. NSE shows neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons and binds in a calcium-dependent manner to cultured neocortical neurons promoting cell survival.

Neuron Specific Enolase Human Recombinant is expressed in *E. coli* containing 433 amino acids 2-434 fused to an amino terminal hexahistidine tag. The NSE is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95% as determined by SDS-PAGE.
Single band on Western Blot.

Formulation

Enolase 2 is supplied in 10mM Tris-HCl (pH 8), 250mM NaCl, 0.5mM DTT, 1.5mM Cysteine, and 50% Glycerol.

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.

Applications

Recombinant Human NSE can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments.

The biological activity of this product has not yet been tested.