



Product Data Sheet

□ Cat # RP-384

Recombinant Human Neuronal Specific Enolase

Size: □ 10 ug

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.

Source: *Escherichia Coli*. 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. Enolase 2 is supplied in 1x Laemmli Buffer (25mM Tris-HCl pH6.8, 50mM DTT, 1%(w/v) SDS, 0.1%(w/v) Bromophenol Blue and 2.5% Glycerol).

Applications and Suggested Dilutions: Greater than 95% as determined by SDS-PAGE. Single band on Western Blot. 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. Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-384

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