

**Synonym**

Neuron-specific enolase, gamma-enolase

**Source**

Human NSE, His Tag(NSE-H5144) is expressed from E. coli cells. It contains AA Met 1 - Leu 434 (Accession # [P09104-1](#)).

Predicted N-terminus: Met

**Molecular Characterization**

Poly-his NSE(Met 1 - Leu 434)  
P09104-1

This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 49.3 kDa. The protein migrates as 46-50 kDa under reducing (R) condition (SDS-PAGE).

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

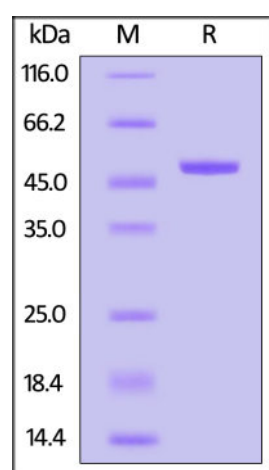
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

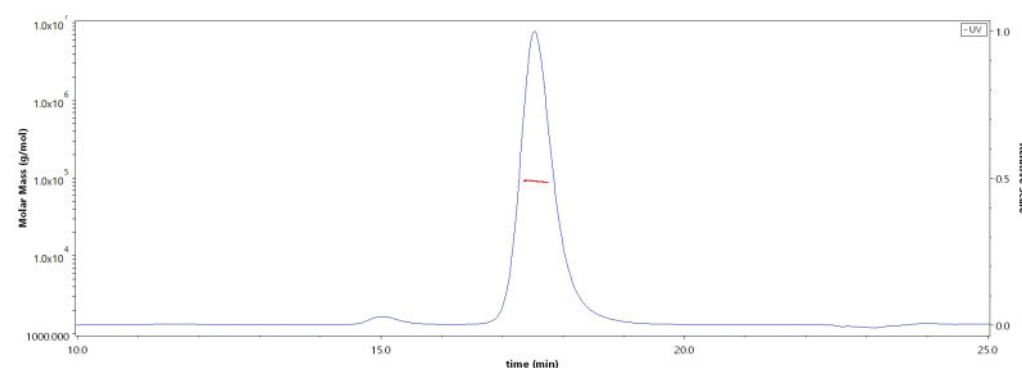
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

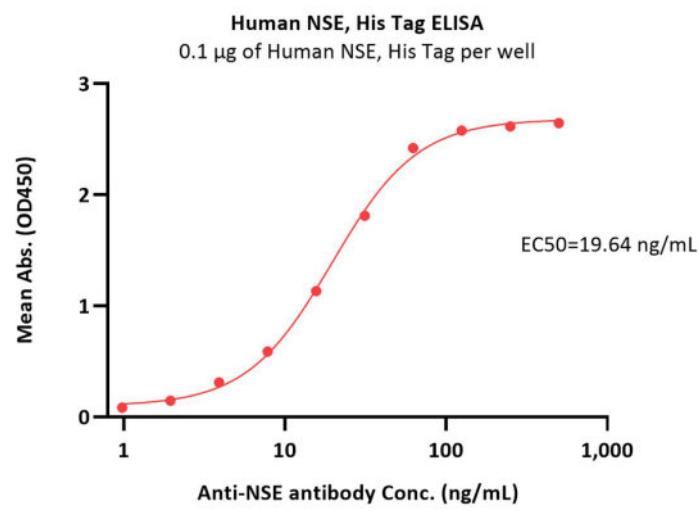
**SDS-PAGE**

Human NSE, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA****SEC-MALS**

The purity of Human NSE, His Tag (Cat. No. NSE-H5144) is more than 90% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human NSE, His Tag (Cat. No. NSE-H5144) at 1 µg/mL (100 µL/well) can bind Anti-NSE antibody with a linear range of 1-63 ng/mL (QC tested).

## Background

Neuron-specific enolase (NSE) is known to be a cell specific isoenzyme of the glycolytic enzyme enolase. It is also known as gamma-enolase or nolase 2 (ENO2). It has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. NSE is a highly specific marker for neurons and peripheral neuroendocrine cells. In clinical, NSE could be used as a biomarker for neuronal injury.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.