

Synonym

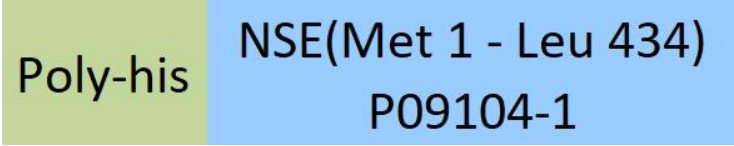
Neuron-specific enolase,gamma-enolase

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



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).

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m 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

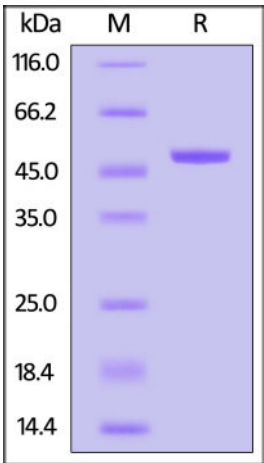
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

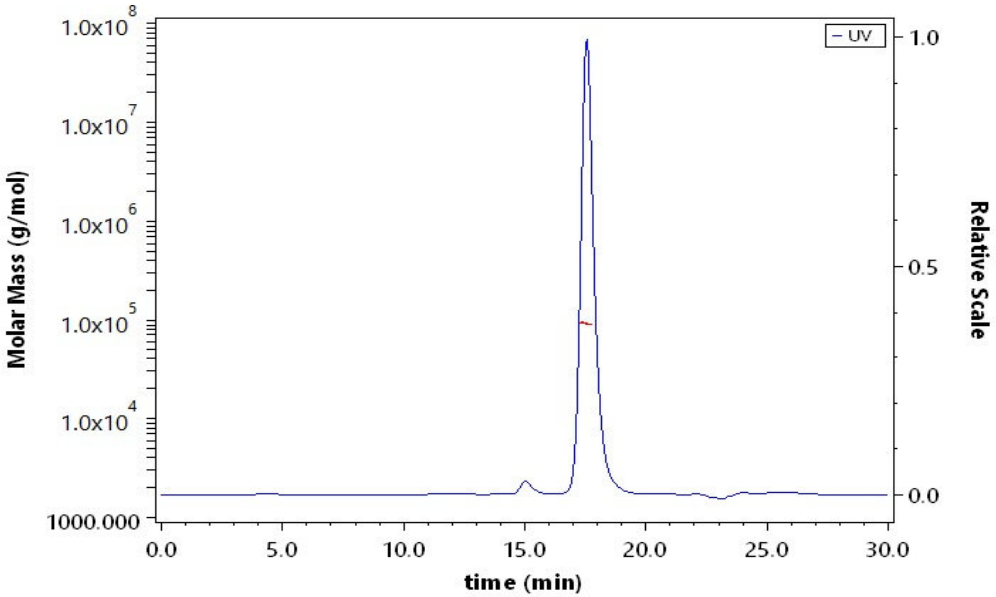
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



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

SEC-MALS

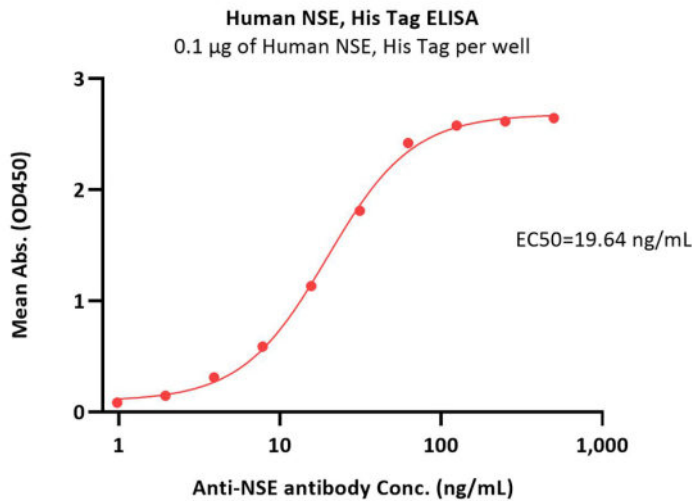


The purity of Human NSE, His Tag (Cat. No. NSE-H5144) is more than 90% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA





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.

