

Mouse NSE Protein, His Tag (MALs verified)

Catalog # NSE-M5147



Synonym

Neuron-specific enolase, gamma-enolase

Source

Mouse NSE, His Tag (NSE-M5147) is expressed from *E. coli* cells. It contains AA Met 1 - Met 431 (Accession # [Q545V3-1](#)).

Predicted N-terminus: Met

Molecular Characterization

Poly-his

NSE(Met 1 - Met 431)
Q545V3-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 49.3 kDa. The protein migrates as 47-50 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 0.5 M Arginine, 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.

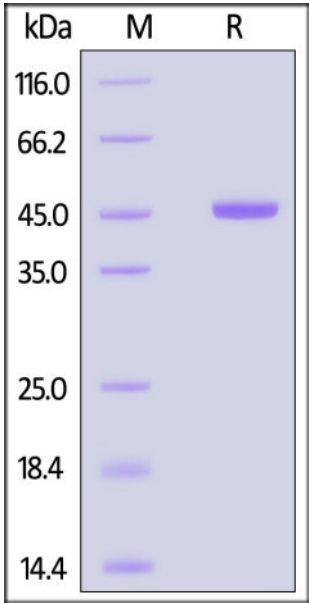
This product is stable after storage at:

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

ACRO Quality Management System

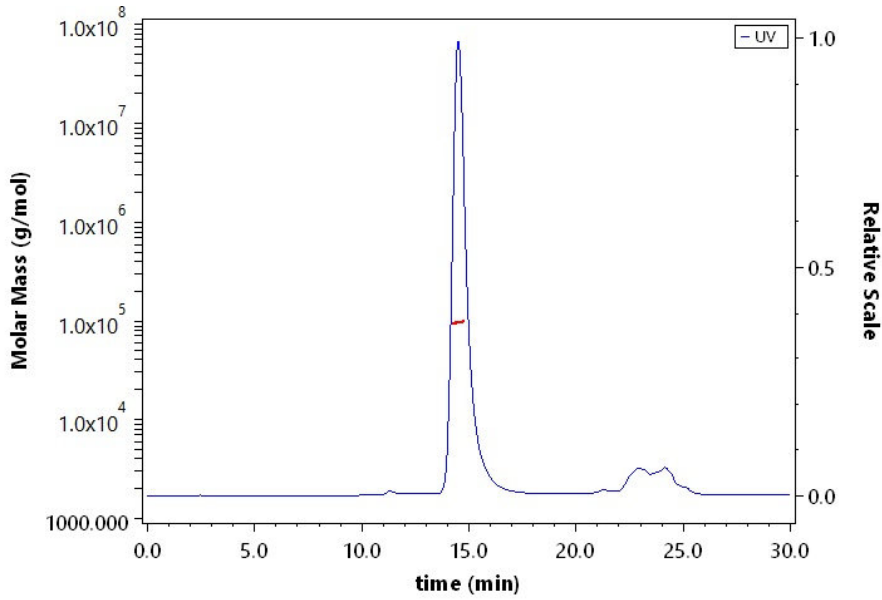
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



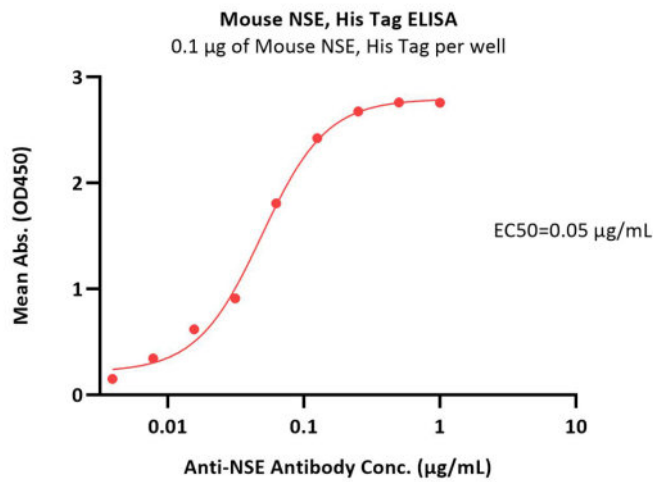
Mouse NSE, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Mouse NSE, His Tag (Cat. No. NSE-M5147) is more than 95% and the molecular weight of this protein is around 100-115 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse NSE, His Tag (Cat. No. NSE-M5147) at 1 μg/mL (100 μL/well) can bind Anti-NSE Antibody with a linear range of 0.004-0.125 μg/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.

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