

**Synonym**

SNCA, NACP, PARK1, alpha-Synuclein

SourceMouse Alpha-Synuclein, His Tag (ALN-M52H6) is expressed from *E. coli* cells.It contains AA Met 1 - Ala 140 (Accession # [O55042-1](#)).

Predicted N-terminus: Met 1

Molecular Characterization

SNCA(Met 1 - Ala 140)	Poly-his
O55042-1	

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

The protein has a calculated MW of 16.4 kDa. The protein migrates as 19-21 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

EndotoxinLess than 0.01 EU per μ g by the LAL method / rFC method.**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

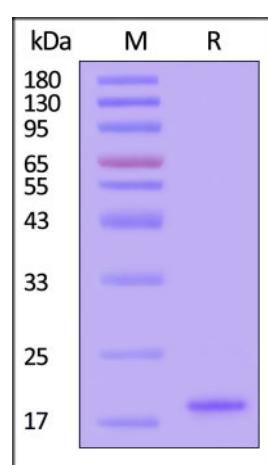
FormulationSupplied as 0.2 μ m filtered solution in 100 mM NaAC, pH6.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping*This product is supplied and shipped with dry ice, please inquire the shipping cost.***Storage***Please avoid repeated freeze-thaw cycles.*

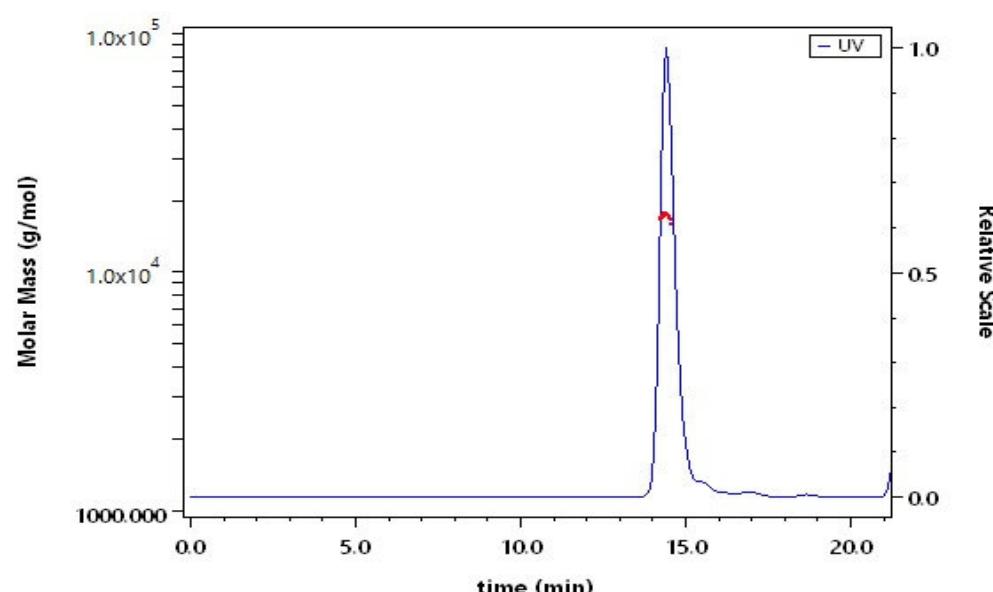
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE

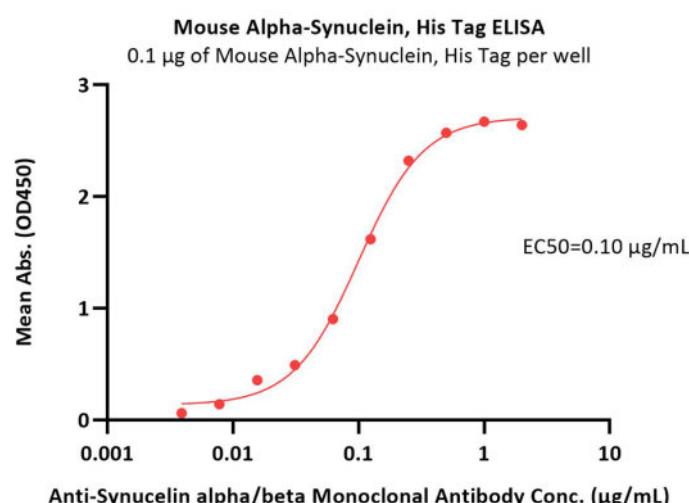
Mouse Alpha-Synuclein, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

The purity of Mouse Alpha-Synuclein, His Tag (Cat. No. ALN-M52H6) is more than 90% and the molecular weight of this protein is around 15-23 kDa verified by SEC-MALS.

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Immobilized Mouse Alpha-Synuclein, His Tag (Cat. No. ALN-M52H6) at 1 µg/mL (100 µL/well) can bind Anti-Synuclein alpha/beta Monoclonal Antibody with a linear range of 0.004-0.25 µg/mL (QC tested).

Background

Alpha-synuclein is a neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. It acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. Abnormalities in alpha-synuclein are implicated in the pathogenesis of Parkinson's disease (PD). Alpha-synuclein is present in Lewy-bodies, the neuropathological hallmark of PD, and the protein and its aggregation have been widely linked to neurotoxic pathways that ultimately lead to neurodegeneration.

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