

**Synonym**

SNCA, NACP, PARK1, alpha-Synuclein

**Source**Human Alpha-Synuclein, Tag Free(ALN-H5214) is expressed from *E. coli* cells.It contains AA Met 1 - Ala 140 (Accession # [P37840-1](#)).

Predicted N-terminus: Met 1

**Molecular Characterization**
**SNCA(Met 1 - Ala 140)**  
**P37840-1**

This protein carries no "tag".

The protein has a calculated MW of 14.5 kDa. The protein migrates as 15-16 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).**Endotoxin**Less than 0.01 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

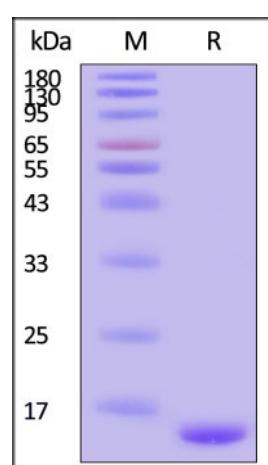
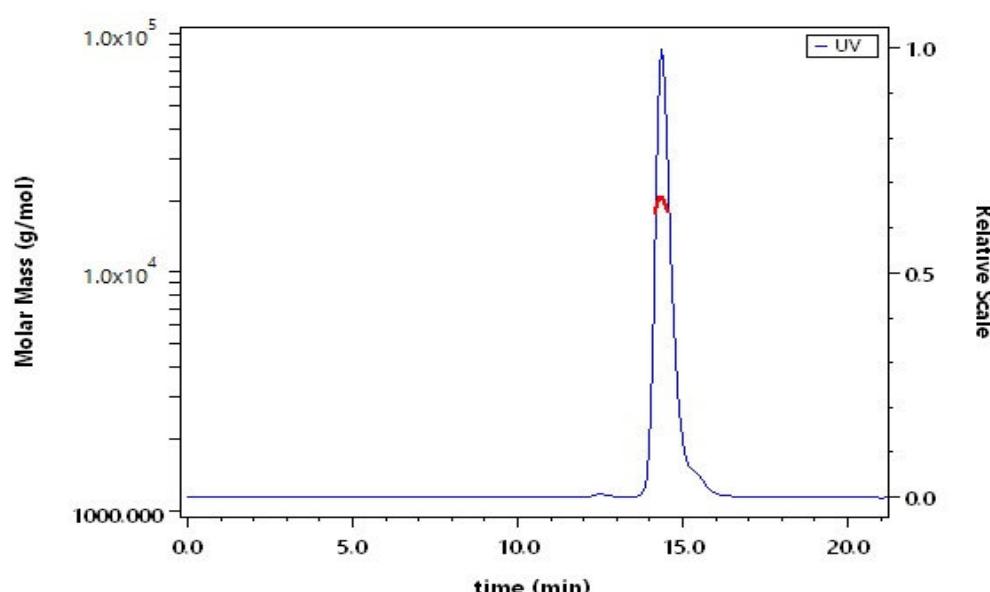
**Formulation**Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 100 mM NaCl, pH7.5 with trehalose as protectant.

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.*

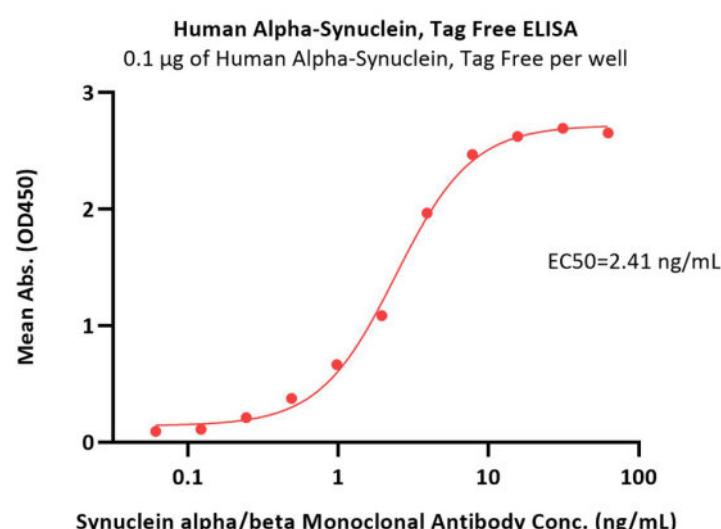
This product is stable after storage at:

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

**SDS-PAGE**Human Alpha-Synuclein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).**SEC-MALS**

The purity of Human Alpha-Synuclein, Tag Free (Cat. No. ALN-H5214) is more than 90% and the molecular weight of this protein is around 13-19 kDa verified by SEC-MALS.

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Immobilized Human Alpha-Synuclein, Tag Free (Cat. No. ALN-H5214) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Synuclein alpha/beta Monoclonal Antibody with a linear range of 0.1-8 ng/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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