

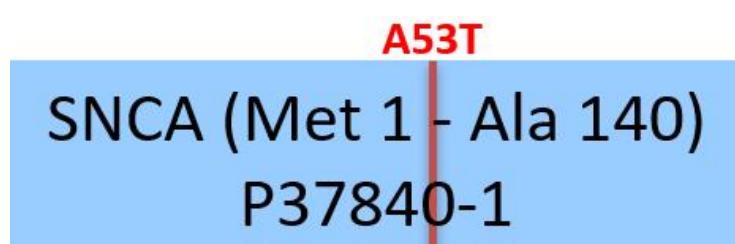
**Synonym**

SNCA, NACP, PARK1, alpha-Synuclein

**Source**

Human Alpha-Synuclein (A53T), Tag Free (ALN-H5116) is expressed from E. coli cells. It contains AA Met 1 - Ala 140 (Accession # [P37840-1](#) (A53T)).

Predicted N-terminus: Met 1

**Molecular Characterization**

This protein carries no "tag".

The protein has a calculated MW of 14.5 kDa. The protein migrates as 15 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;95% as determined by SDS-PAGE.

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

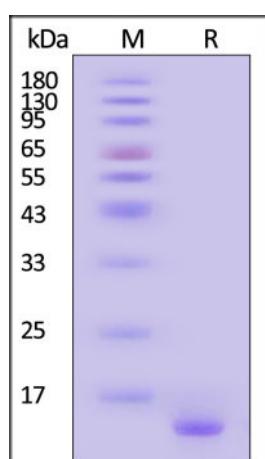
**Formulation**Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 100 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

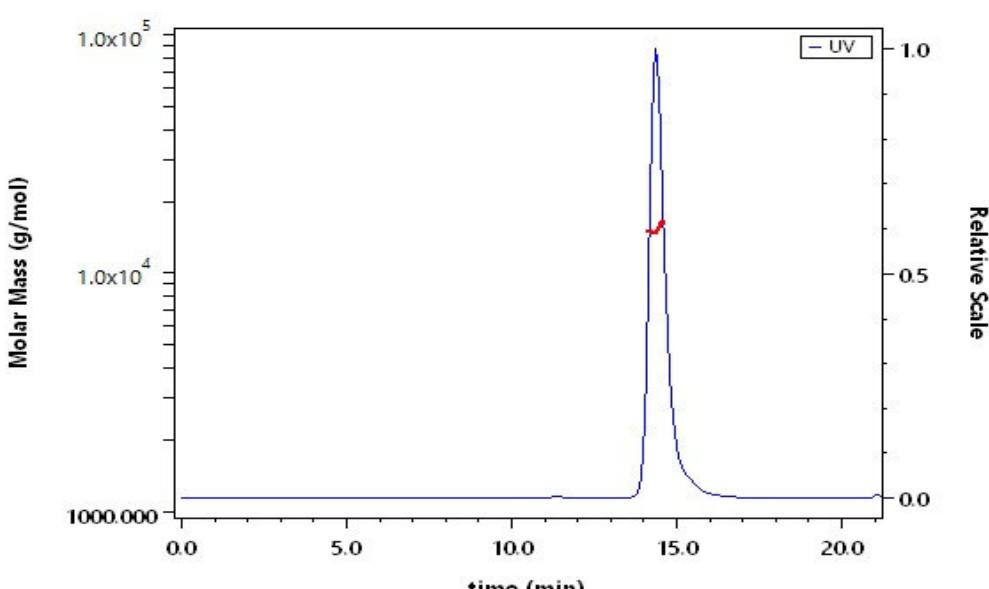
**Shipping***This product is supplied and shipped with dry ice, please inquire the shipping cost.***Storage***Please avoid repeated freeze-thaw cycles.*

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.

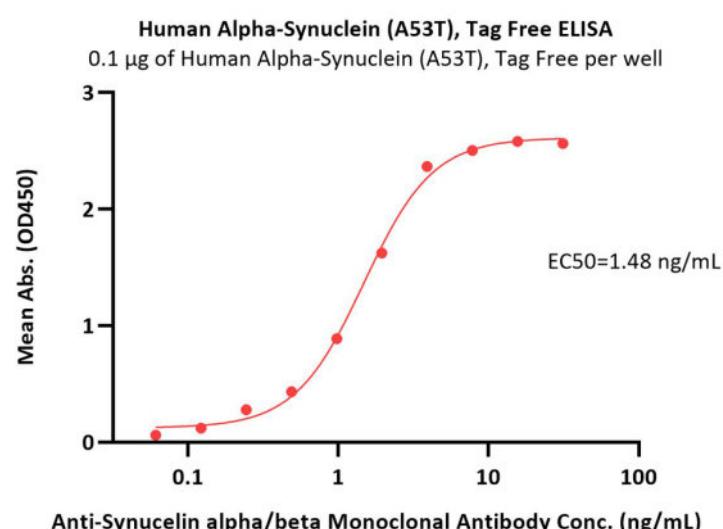
**SDS-PAGE**

Human Alpha-Synuclein (A53T), Tag Free 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 Human Alpha-Synuclein (A53T), Tag Free (Cat. No. ALN-H5116) is more than 90% and the molecular weight of this protein is around 12-18 kDa verified by SEC-MALS.

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Immobilized Human Alpha-Synuclein (A53T), Tag Free (Cat. No. ALN-H5116) at 1 µg/mL (100 µL/well) can bind Anti-Synuclein alpha/beta Monoclonal Antibody with a linear range of 0.1-4 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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