



## Synonym

SNCA,NACP,PARK1,alpha-Synuclein

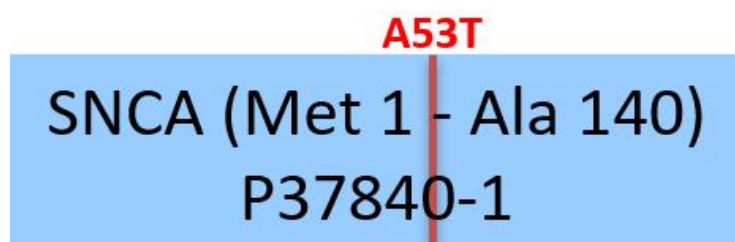
## Source

Human Alpha-Synuclein (A53T) Pre-formed Fibrils Protein, Tag Free(ALN-H5114) 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.

## Application

THT, cell assay, drug screening and other in vitro experiment.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2  $\mu$ m filtered solution in PBS, pH7.4 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.*

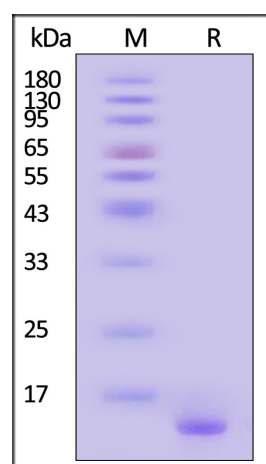
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product should be stored at  $-70^{\circ}\text{C}$  or room temperature for short storage. Do not store fibrils on ice or at  $4^{\circ}\text{C}$ ;
- The unsonicated fibril is validated to be stable after storage at  $-70^{\circ}\text{C}$  for 1 year under sterile conditions;
- The sonicated fibril should be stored at  $-70^{\circ}\text{C}$  for not more than 8 weeks.

## SDS-PAGE



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

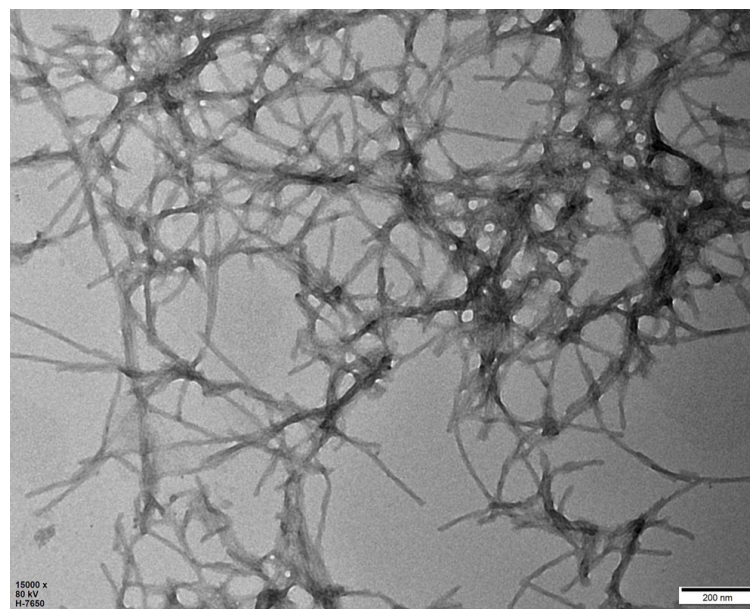
## Electron Microscope

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and more!





Surprise Inside!



Transmission electron microscopy (TEM) of Alpha-Synuclein (A53T) Pre-formed Fibrils (Cat. No. ALN-H5114). Fibril structure is visible on negative stain TEM images of ALN-H5114 (Routinely 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.

## Clinical and Translational Updates

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