

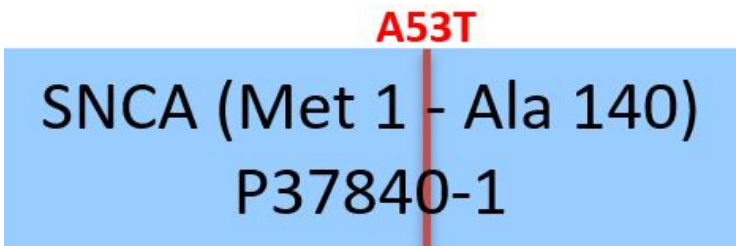
Synonym

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 µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm 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.*

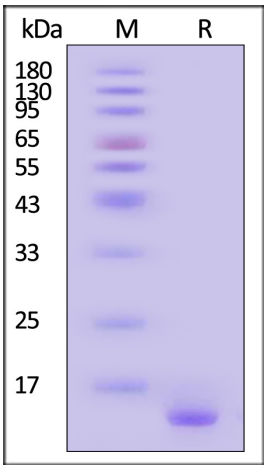
Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

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

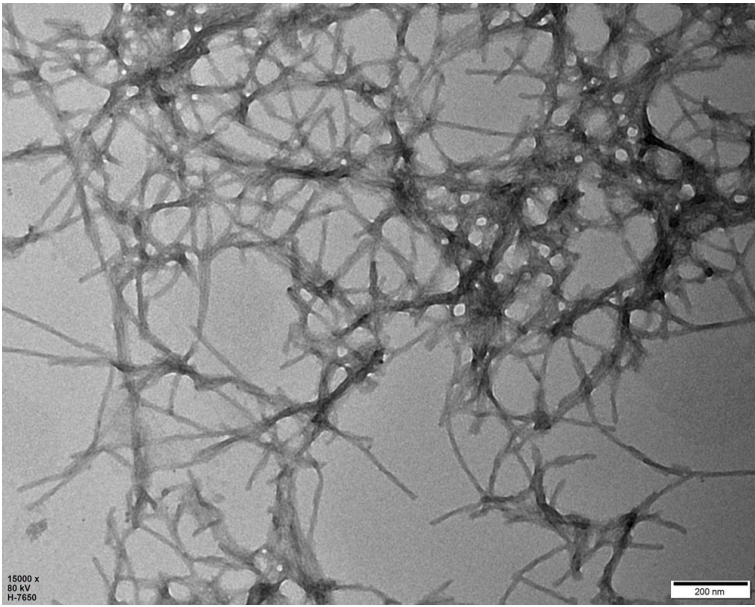
SDS-PAGE



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





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.

Discounts, Gifts,  
and more!

