

Human Alpha Synuclein (A53T) Protein

Cat. No. ALS-HE002



Description

Source	Recombinant Human Alpha Synuclein (A53T) Protein is expressed from E.coli without tag. It contains Met1-Ala140 (A53T).
Accession	P37840-1
Molecular Weight	The protein has a predicted MW of 14.49 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

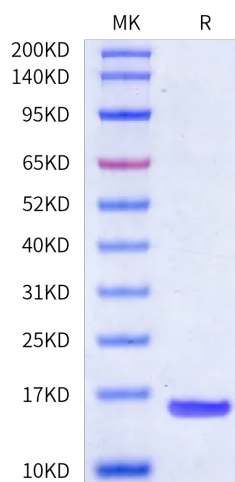
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Alpha-synuclein (α -synuclein) is a protein that is abundantly found in the brain and in a lesser amount in the heart and muscles. Its overexpression in the neurons leads to the formation of Lewy bodies that damage the dopaminergic neurons in the substantia nigra of the midbrain and leads to the progression of Parkinson's Disease (PD).

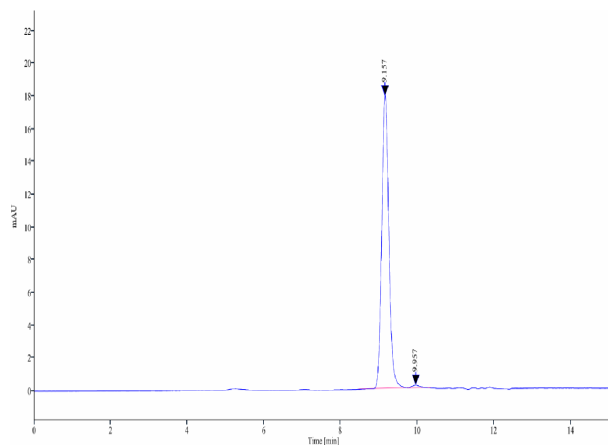
Assay Data

Bis-Tris PAGE



Human Alpha Synuclein (A53T) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Alpha Synuclein (A53T) is greater than 95% as determined by SEC-HPLC.