

## SNCA A53T Human

**Description:**A-Synuclein A53T Human Recombinant which is a Parkinsons disease-related point mutant, produced in E.Coli is a single, non-glycosylated polypeptide chain of 140 amino acids having a molecular mass of 14.4kDa (molecular size on SDS-PAGE will appear higher). The Recombinant Human a-Synuclein A53T is purified by proprietary chromatographic techniques.

Catalog #:PRPS-166

For research use only.

**Synonyms:**Alpha-synuclein, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, NACP, PD1, PARK1, PARK4, MGC110988, a-Synuclein, SNCA.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MDVFMKGLSK AKEGVVAAA E KTKQGVAAEA GKTKEGVLYV  
GSKTKEGVVH GVTVAEKT EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL  
GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEP EA.

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The SNCA A53T protein solution (1mg/ml) contains 20mM Tris-HCl buffer pH 7.5 and 100mM NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

a-Synuclein (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils. a-synuclein has been suggested to be implicated in the pathogenesis of Parkinsons disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells. Moreover, recent studies have shown that a-synuclein has chaperone activity and that this activity is lost upon removing its C-terminal acidic tail (amino acids 96-140).

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