

Recombinant Human SNCA, A53T Mutant

Cat. No. SNCA-77H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human A Parkinson's disease-related point mutant (A53T) of α -Synuclein. A53T Mutant of α -Synuclein was overexpressed in <i>E.coli</i> and the recombinant protein was purified to apparent homogeneity by taking advantage of the thermo solubility of the protein and by using conventional column chromatography techniques.
Species	Human
Source	<i>E.coli</i>
Description	Alpha-synuclein also known as SNCA is a protein which in humans is encoded by the SNCA gene. An alpha-synuclein fragment, known as the non-Abeta component (NAC) of Alzheimer's disease amyloid, originally found in an amyloid-enriched fraction, is shown to be a fragment of its precursor protein, NACP, by cloning of the full-length cDNA. Later, NACP turned out to be a human homologue of Torpedo synuclein. Therefore, NACP is also referred to as human alpha-synuclein.
Physical Appearance	Sterile filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Coomassie.
Formulation	The protein (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl .
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for

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longer periods of time. Avoid multiple freeze-thaw cycles For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name SNCA synuclein, alpha (non A4 component of amyloid precursor) [Homo sapiens]

Synonyms SNCA; synuclein, alpha (non A4 component of amyloid precursor); PD1; NACP; PARK1; PARK4; MGC110988; Non-A beta component of AD amyloid; Alpha-synuclein; Non-A4 component of amyloid precursor; OTTHUMP00000161559; OTTHUMP00000161561; non A-beta component of AD amyloid

Gene ID 6622

mRNA Refseq NM_000345

Protein Refseq NP_000336

UniProt ID P37840

Chromosome Location 4q21.3-q22

MIM 163890

Pathway Alzheimer"s disease; Parkinson"s disease

Function Hsp70 protein binding; alpha-tubulin binding; achidonic acid binding; calcium ion binding; caspase inhibitor activity; dynein binding; fatty acid binding; fatty acid binding; ferrous iron binding; histone binding; identical protein binding; kinesin binding; magnesium ion binding; magnesium ion binding; phospholipase inhibitor

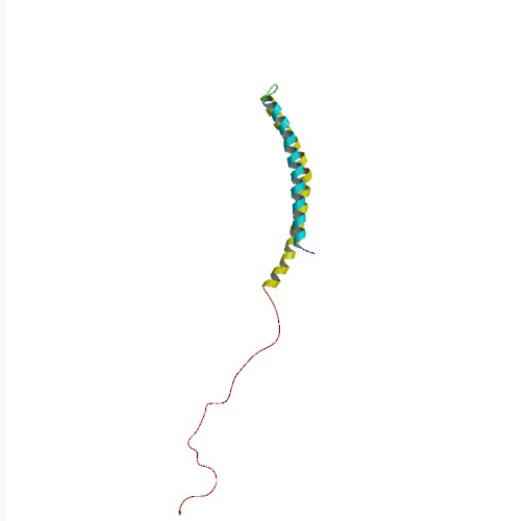
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activity; tau protein binding; transferrin transmembrane transporter activity; zinc ion binding

PDB rendering based on 1xq8.



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