

Recombinant Human SNCA, A30P Mutant

Cat. No. SNCA-76H Lot. No. (See product label)

SPECIFICATION

Product Overview	A Parkinson's disease-related point mutant (A30P) of α -Synuclein. A30P 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	E.coli
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 longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is

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

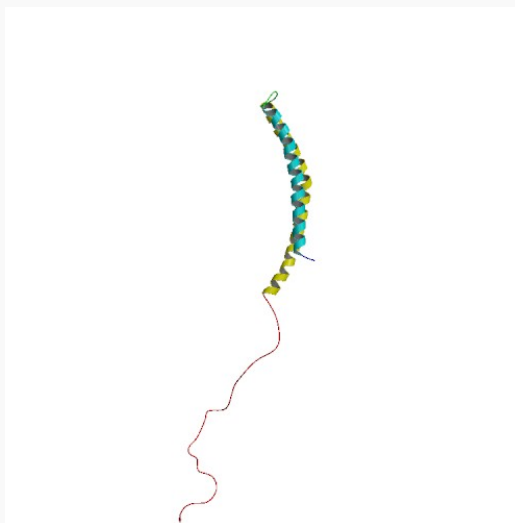
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binding

PDB rendering based
on 1xq8.



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