

Recombinant Human SNCA, 112aa

Cat. No. SNCA-75H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human α -Synuclein 112 produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain having a molecular mass of 11,371 Dalton and 112aa. The Recombinant Human α -Synuclein 112 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	The α -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. α -synuclein has been suggested to be implicated in the pathogenesis of Parkinson's 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 α -synuclein has chaperone activity and that this activity is lost upon removing its C-terminal acidic tail (amino acids 96-140).
Sequence	MDVFMKGLSK/AKEGVVAAAE/KTKQGVAEAA/GKTKEGVLYV/GSKTKEGVVH/GVA TVAEKTQ/EQVTNVGGAV/VTGVTAVAQK/TVEGAGSIAA/ATGFVKKDQL/ GKNEEG APQE/ GILEDMPVDP/DNEAYEMPSE/EGYQDYEPEA.
Physical Appearance	Sterile filtered colorless solution.

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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 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

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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 binding
PDB rendering based on 1xq8.	