

# Recombinant Human Synuclein, Alpha (Non A4 Component of Amyloid Precursor)

**Cat. No.** SNCA-78H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Syn61-140 was overexpressed in *E. coli* and was purified to apparent homogeneity by taking advantage of the thermosolubility of protein and by using conventional column chromatography techniques (81 aa, 8.4 kDa). Additional amino acid (Met) is attached at the N-terminus.

**Species**      Human

**Source**      E.coli

**Description**      A deletion mutant of alpha-synuclein (amino acids 61-140). 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.

**Formulation**      Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl.

**Molecular Weight**      8.4 kDa (81 aa).

**Purity**      > 95% by SDS – PAGE.

**Concentration**      1 mg/ml (determined by BCA assay).

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<b>Amino acid Sequence</b>	MEQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEP EA
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">SNCA synuclein, alpha (non A4 component of amyloid precursor) [ Homo sapiens ]</a>
<b>Synonyms</b>	MGC110988; NACP; OTTHUMP00000161559; OTTHUMP00000161561; PARK1; PARK4; PD1; alpha-synuclein; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; alpha synuclein; alpha-synuclein, isoform NACP140; non A4 component of amyloid; synuclein, alpha (non A4 component of amyloid precursor); SNCA.
<b>Gene ID</b>	<a href="#">6622</a>
<b>mRNA Refseq</b>	<a href="#">NM_000345</a>
<b>Protein Refseq</b>	<a href="#">NP_000336</a>
<b>MIM</b>	<a href="#">163890</a>
<b>UniProt ID</b>	<a href="#">P37840</a>
<b>Chromosome Location</b>	4q21
<b>Pathway</b>	Alzheimer"s disease; Neurodegenerative Disorders; Parkinson"s disease.

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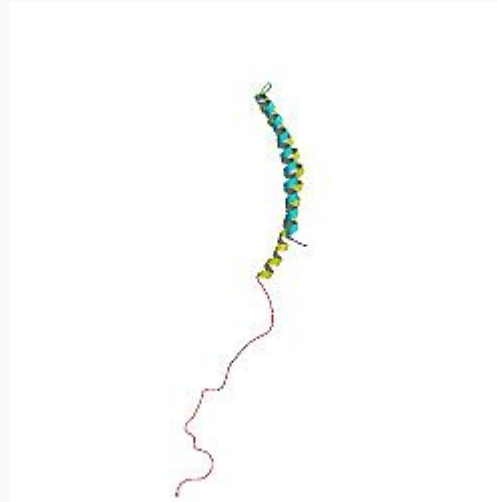
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**Function**

Hsp70 protein binding; alpha-tubulin binding; dynein binding; histone binding; kinesin binding; tau protein binding; transferrin transmembrane transporter activity.

**PDBrendering based on 1xq8. Available structures: 1xq8.**



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