

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 <i>E. coli</i> 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 α -synuclein (amino acids 61-140). α -synuclein also known as SNCA is a protein which in humans is encoded by the SNCA gene. An α -synuclein fragment, known as the non-A β 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 α -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).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Amino acid Sequence	MEQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEP EA
Storage	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.
GENE INFORMATION	
Gene Name	SNCA synuclein, alpha (non A4 component of amyloid precursor) [Homo sapiens]
Synonyms	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.
Gene ID	6622
mRNA Refseq	NM_000345
Protein Refseq	NP_000336
MIM	163890
UniProt ID	P37840
Chromosome Location	4q21
Pathway	Alzheimer"s disease; Neurodegenerative Disorders; Parkinson"s disease.

Function

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

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