

## Native Human SNCA

**Cat. No.** SNCA-27341TH **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	A deletion mutant: M-KKDQL GK NEEGAPQE G ILEDMPVDPDNEAYEMPSEEGYQDYEP E A, corresponding to amino acids 96-140 of Human alpha Synuclein. 46 amino acids, MW 5217 Da. Additional amino acid(Met) is attached at the N-terminus.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	96-140 a.a.
<b>Description</b>	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimers disease. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene.
<b>Tissue specificity</b>	Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 0.1M Sodium chloride, 20mM Tris HCl, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYPEA
<b>Sequence Similarities</b>	Belongs to the synuclein family.

## GENE INFORMATION

<b>Gene Name</b>	SNCA synuclein, alpha (non A4 component of amyloid precursor) [ Homo sapiens ]
<b>Official Symbol</b>	SNCA
<b>Synonyms</b>	SNCA; synuclein, alpha (non A4 component of amyloid precursor); PARK1, PARK4, Parkinson disease (autosomal dominant, Lewy body) 4; alpha-synuclein; alpha synuclein; NACP; PD1;
<b>Gene ID</b>	6622
<b>mRNA Refseq</b>	NM_000345
<b>Protein Refseq</b>	NP_000336
<b>MIM</b>	163890
<b>Uniprot ID</b>	P37840

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<b>Chromosome Location</b>	4q21.3-q22
<b>Pathway</b>	Alpha-synuclein signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem;
<b>Function</b>	Hsp70 protein binding; alpha-tubulin binding; arachidonic acid binding; calcium ion binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process;

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