

Native Human SNCA

Cat. No. SNCA-27345TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A deletion mutant of human alpha-synuclein that lacks the NAC region (amino acids 61-95).111 amino acids, MW 11.9 kDa. Six amino acids were added as a linker.
Species	Human
Source	E.coli
ProteinLength	61-95 a.a.
Description	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.
Tissue specificity	Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
Form	Liquid
Purity	>95% by SDS-PAGE

 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

Storage buffer	Preservative: None Constituents: 0.1M Sodium chloride, 20mM Tris HCl, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTGK GTEIWMKKDQ LGKNEEGAPQ EGILEDMPVD PDNEAYEMPS EEGYQDYEPE A
Sequence Similarities	Belongs to the synuclein family.

GENE INFORMATION

Gene Name	SNCA synuclein, alpha (non A4 component of amyloid precursor) [Homo sapiens]
Official Symbol	SNCA
Synonyms	SNCA; synuclein, alpha (non A4 component of amyloid precursor); PARK1, PARK4, Parkinson disease (autosomal dominant, Lewy body) 4; alpha-synuclein; alpha synuclein; NACP; PD1;
Gene ID	6622
mRNA Refseq	NM_000345
Protein Refseq	NP_000336
MIM	163890
Uniprot ID	P37840
Chromosome	4q21.3-q22

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Location	
Pathway	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;
Function	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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