

## Native Human SNCA

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

### SPECIFICATION

|                           |  |
|---------------------------|--|
| <b>Product Overview</b>   | 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.   |
| <b>Species</b>            | Human  |
| <b>Source</b>             | E.coli   |
| <b>ProteinLength</b>      | 61-95 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   |
| <b>Purity</b>             | >95% by SDS-PAGE   |

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|---------------------------------|--|
| <b>Storage buffer</b>           | Preservative: None<br>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> | MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH<br>GVATVAEKTK GTEIWMKKDQ LGKNEEGAPQ EGILEDMPVD PDNEAYEMPS<br>EEGYQDYEPE A |
| <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  |
| <b>Chromosome</b>      | 4q21.3-q22  |

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|                 |  |
|-----------------|--|
| <b>Location</b> |  |
| <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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