

# 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| <b>Purity</b>                   | >95% by SDS-PAGE                                                                      |
| <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> | MKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEP EA                                   |
| <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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