

## Active Recombinant Human SNCA protein

**Cat. No.** SNCA-240H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SNCA was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>alpha -Synuclein is a member of a family of small, soluble proteins that also include beta -, and gamma -Synuclein. alpha -Synuclein is predominantly expressed in neurons of the central nervous system, specifically in the presynaptic region of nerve terminals. This protein cycles between a free, partially unfolded form and a helical, membrane-bound form. alpha -Synuclein can aggregate in vivo and in vitro, forming various oligomeric species and fibrillar and amorphous aggregates. The fibrils and amyloid forms are major components of Lewy Bodies and have been linked to the pathogenesis of Parkinson's disease dementia. alpha -Synuclein aggregates can also be found associated with amyloid plaques in Alzheimer's disease.</p> |
| <b>Form</b>             | X mg/ml (X µM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 1 mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bio-activity</b>     | <p>Recombinant Human alpha -Synuclein is ideal for use as a control substrate for in vitro Ubiquitin conjugation using select Ubiquitin E3 ligases such as CHIP/Stub1. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human alpha -Synuclein concentration of 0.5-2.5 µM.</p>                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 14 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>  | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                                                           |
| <b>Storage</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -70 centigrade as supplied.<br>6 months, -70 centigrade under sterile conditions after opening. |

## 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; synuclein alpha-140; non A-beta component of AD amyloid; PARK1; PARK4; MGC110988; |
| <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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