

## Recombinant Human SNCA, His-tagged

Cat. No. SNCA-9160H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SNCA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Alpha-Synuclein (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils. $\alpha$ -synuclein has been suggested to be implicated in the pathogenesis of Parkinson's disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells.
<b>Form</b>	Liquid. in 20 mM Tris-HCl buffer (pH7.5) containing 0.1M NaCl, 1mM MgCl <sub>2</sub>
<b>Molecular Mass</b>	14.4 kDa (140aa), confirmed by MALDI-TOF
<b>Endotoxin</b>	Less than 0.1 ng/ $\mu$ g (IEU/ $\mu$ g) of recombinant human Alpha Synuclein by the LAL method
<b>Purity</b>	More than 95%, as determined by SDS-PAGE
<b>Stability</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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**Concentration** 1 mg/ml (determined by BCA assay)

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

**Gene ID** 6622

**mRNA Refseq** NM\_000345

**Protein Refseq** NP\_000336

**MIM** 163890

**UniProt ID** P37840

**Chromosome Location** 4q21.3-q22

**Pathway** Alpha-synuclein signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem; Disease, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;

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**Function**

Hsp70 protein binding; alpha-tubulin binding; arachidonic acid binding; calcium ion binding; copper ion binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; dynein binding; NOT fatty acid binding; ferrous iron binding; histone binding; identical protein binding; kinesin binding; magnesium ion binding; oxidoreductase activity; NOT phospholipase D inhibitor activity; phosphoprotein binding; protein binding; tau protein binding; zinc ion binding;

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