

## Recombinant Human SNCA protein, His-tagged

Cat. No. SNCA-166H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TACSTD2 protein (Met1-Ala140) was fused to His-tag at the C-terminus and expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Ala140
<b>Description</b>	Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores. Mechanistically, acts by increasing local Ca <sup>2+</sup> release from microdomains which is essential for the enhancement of ATP-induced exocytosis. Acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. This chaperone activity is important to sustain normal SNARE-complex assembly during aging. Plays also a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity.
<b>Predicted N Terminal</b>	Met1
<b>Form</b>	Lyophilized from 0.22

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	µm filtered solution in 100 mM NaAC, pH7.0, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 16.3 kDa. The protein migrates as 19 kDa under reducing (R) condition (SDS-PAGE).
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20°C or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;            -70°C for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	SNCA
<b>Official Symbol</b>	SNCA
<b>Synonyms</b>	PD1; NACP; PARK1; PARK4
<b>Gene ID</b>	6622
<b>mRNA Refseq</b>	NM_000345.4

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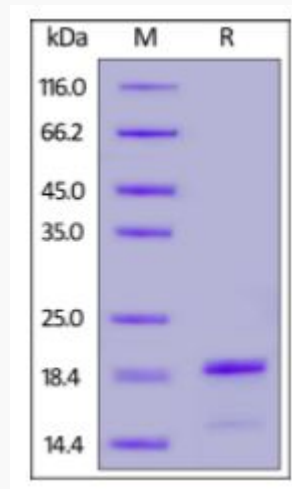
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**Protein Refseq** NP\_000336.1

**MIM** 163890

**UniProt ID** P37840

**SDS-PAGE of SNCA-166H**



Human Alpha-Synuclein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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