Recombinant Human SNCA protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human TACSTD2 protein (Met1-Ala140) was fused to His-tag at the C-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ala140
Description	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 Ca2+ 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.
Predicted N Terminal	Met1
Form	Lyophilized from 0.22

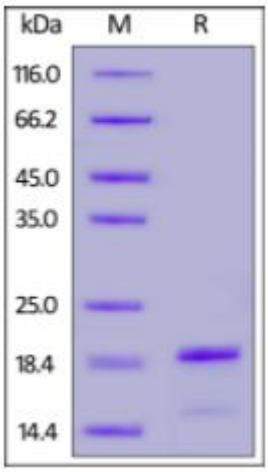
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	μm filtered solution in 100 mM NaAC, pH7.0, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 16.3 kDa. The protein migrates as 19 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity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

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

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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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