

alpha-Synuclein Recombinant Protein | Snca recombinant protein

alpha-Synuclein Protein, Mouse, Recombinant (His Tag), HPLC-verified

CATALOG #
AAA259266

HOST
E coli

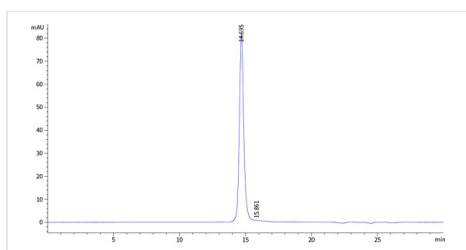
PRODUCT SYNONYMS

alpha-Synuclein; alpha-Synuclein Protein; Mouse; Recombinant (His Tag); HPLC-verified; synuclein; alpha (non A4 component of amyloid precursor); alphaSYN Protein; NACP Protein; Snca recombinant protein

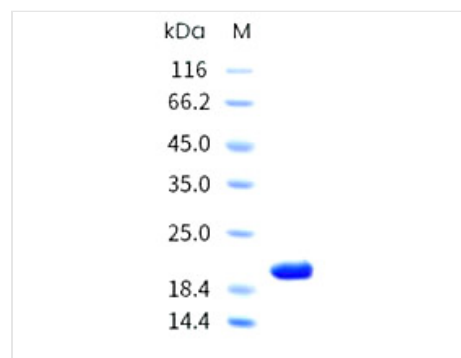
PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	>= 95% as determined by SDS-PAGE. = 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	Met
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse SNCA (O55042-1)(Met1-Ala140) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for Snca recombinant protein	Alpha-Synuclein (alpha-Syn), also known as NACP or SNCA, exists as at least two structural isoforms: one is helix-rich, membrane-bound form that both the N- and C-terminal regions of alpha-synuclein are tightly associated with membranes and the other is disordered, cytosolic form. Synuclein is found predominantly in the presynaptic termini, in both free or membrane-bound forms. SNCA is extensively localized in nucleus of neurons. It has been shown that alpha-Synuclein was highly expressed in the mitochondria in olfactory bulb, hippocampus, striatum, and thalamus, where the cytosolic alpha-Synuclein was also rich. Normally the unstructured soluble type of alpha-synuclein can aggregate to form insoluble fibrils in pathological conditions characterized by Lewy bodies, such as Parkinson's disease, dementia with Lewy bodies and multiple system atrophy. SNCA abnormality and mitochondrial deficiency are two major changes in the brain of patients with Parkinson's disease (PD). Besides, alpha-synuclein is an abundant component of Lewy bodies in sporadic Parkinson's disease and diffuse Lewy body disease.
References	Arima K, et al. (1998) Immunolectron-microscopic demonstration of NACP/alpha-synuclein-epitopes on the filamentous component of Lewy bodies in Parkinson's disease and in dementia with Lewy bodies. Brain Res. 808 (1): 93-100. Arima K, et al. (1998) NACP/alpha-synuclein immunoreactivity in fibrillary components of neuronal and oligodendroglial cytoplasmic inclusions in the pontine nuclei in multiple system atrophy. Acta Neuropathol. 96 (5): 439-44. Lee HJ, et al. (2001) Membrane-bound alpha-Synuclein Has a High Aggregation Propensity and the Ability to Seed the Aggregation of the Cytosolic Form. The Journal of Biological Chemistry. 277: 671-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109638747
NCBI GeneID	20617
NCBI Accession #	NP_001035916.1
NCBI GenBank Nucleotide #	NM_001042451.1
UniProt Accession #	O55042; Q3U130; Q9CXF8; Q9EQC3; Q9QUR3
Molecular Weight	14,485 Da
NCBI Official Full Name	alpha-synuclein
NCBI Official Synonym Full Names	synuclein, alpha
NCBI Official Symbol	Snca
NCBI Official Synonym Symbols	NACP; alphaSYN
NCBI Protein Information	alpha-synuclein; alpha SYN; non-A4 component of amyloid; non-A beta component of AD amyloid
UniProt Protein Name	Alpha-synuclein
UniProt Gene Name	Snca
UniProt Synonym Gene Names	Syn; NACP
UniProt Entry Name	SYUA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.