Synuclein, Alpha, Aa1-60 (SNCA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Synuclein, alpha, aa1-60 (SNCA), Recombinant Protein
Full Product Name	Synuclein, alpha, aa1-60, Recombinant, Human
Product Gene Name	SNCA recombinant protein
Sequence	MDVFMKGLSK / AKEGVVAAAE / KTKQGVAEAA / GKTKEGVLYV / GSKTKEGVVH / GVATVAEKTK
Host	E Coli
Form/Format	Supplied as a liquid in 20mM Tris-HCl, pH 7.5, 0.1M sodium chloride.
Purity/Purification	Highly Purified 95% by SDS PAGE; Purified to apparent homogeneity by using conventional column chromatography techniques
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, store at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	6.1kD
Chromosome Location	Chromosome: 4; NC_000004.11 (90645250..90759447, complement). Location: 4q21
OMIM	127750
3D Structure	ModBase 3D Structure for P37840
Product Categories/Family for SNCA recombinant protein	Molecular Biology; MB-Synuclein
Related Product Information for SNCA recombinant protein	A deletion mutant of alpha synuclein (amino acids 1-60), which contains the N-terminal
Other Notes	Small volumes of SNCA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SNCA purchase	MBS635602 is a recombinant protein targeting SNCA. Also known as Synuclein, alpha, aa1-60, Recombinant, Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SNCA. It may not necessarily be applicable to this product.

NCBI GI #	119626441
NCBI GeneID	6622
NCBI Accession #	EAX06036.1
UniProt Primary Accession #	P37840
UniProt Secondary Accession #	Q13701; Q4JHI3; Q6IAU6; A8K2A4
UniProt Related Accession #	P37840
NCBI Official Full Name	synuclein, alpha (non A4 component of amyloid), isoform CRA_b
NCBI Official Synonym Full Names	synuclein, alpha (non A4 component of amyloid precursor)

NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4
UniProt Protein Name	Alpha-synuclein
UniProt Synonym Protein Names	Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor
Protein Family	Alpha-synuclein
UniProt Gene Name	SNCA
UniProt Synonym Gene Names	NACP; PARK1; NACP
UniProt Entry Name	SYUA_HUMAN
NCBI Protein Information	alpha-synuclein; synuclein alpha-140; non A-beta component of AD amyloid
NCBI Summary for SNCA	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene. [provided by RefSeq, Mar 2009]
UniProt Comments for SNCA	SNCA: a member of the synuclein family. Abundantly expressed in the brain. Inhibits phospholipase D2 selectively. May integrate presynaptic signaling and membrane trafficking. Implicated in the pathogenesis of Parkinson's disease. A major component of amyloid plaques in the brains of patients with Alzheimer's disease. Two alternatively spliced isoforms transcripts have been identified. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 4q21 Cellular Component: Golgi apparatus; nuclear outer membrane; rough endoplasmic reticulum; mitochondrion; lysosome; extracellular region; fibril; terminal button; inclusion body; cell cortex; mitochondrial respiratory chain complex I; cytosol; actin cytoskeleton; platelet alpha granule membrane; synaptic vesicle; growth cone; perinuclear region of cytoplasm; axon; cytoplasm; plasma membrane; ribosome; nucleus; cell junction Molecular Function: protein domain specific binding; identical protein binding; zinc ion binding; histone binding; kinesin binding; microtubule binding; ferrous iron binding; caspase inhibitor activity; magnesium ion binding; beta-tubulin binding; protein N-terminus binding; phosphoprotein binding; calcium ion binding; oxidoreductase activity; Hsp70 protein binding; dynein binding; protein binding; phospholipase binding; copper ion binding; phospholipid binding; fatty acid binding; tau protein binding; alpha-tubulin binding Biological Process: regulation of acyl-CoA biosynthetic process; positive regulation of apoptosis; adult locomotory behavior; positive regulation of endocytosis; response to lipopolysaccharide; dopamine biosynthetic process; positive regulation of neurotransmitter secretion; calcium ion homeostasis; response to magnesium ion; fibril organization and biogenesis; synapse organization and biogenesis; dopamine uptake; negative regulation of neuron apoptosis; response to drug; negative regulation of dopamine metabolic process; synaptic vesicle endocytosis; negative regulation of transporter activity; negative regulation of apoptosis; regulation of long-term neuronal synaptic plasticity; negative regulation of serotonin uptake; mitochondrial membrane organization and biogenesis; negative regulation of norepinephrine uptake; microglial cell activation; negative regulation of monooxygenase activity; negative regulation of transcription from RNA polymerase II promoter; negative regulation of caspase activity; fatty acid metabolic process; regulation of dopamine secretion; negative regulation of histone acetylation; negative regulation of dopamine uptake; negative regulation of exocytosis; negative regulation of protein amino acid phosphorylation; behavioral response to cocaine; receptor internalization; phospholipid metabolic process; response to iron(II) ion; positive regulation of receptor recycling; aging; caspase activation; neutral lipid metabolic process; protein destabilization; negative regulation of microtubule polymerization; regulation of glutamate secretion; regulation of macrophage activation; positive regulation of peptidyl-serine phosphorylation; organelle ATP synthesis coupled electron transport; regulation of locomotion; positive regulation of release of sequestered calcium ion into cytosol; regulation of excitatory postsynaptic membrane potential Disease: Parkinson Disease 4, Autosomal Dominant; Dementia, Lewy Body; Parkinson Disease 1, Autosomal Dominant

Research Articles on SNCA	**1.** This study provides an animal model of MSA-like urinary dysfunction linked to oligodendroglial alpha-synucleinopathy and presenting with bladder hyperactivity with presumed detrusor/sphincter dyssynergia, increased postvoid residual volume.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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