

Recombinant Human SNCA protein

Cat. No. SNCA-237H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SNCA(amino acids 96-140) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	amino acids 96-140
Description	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.
Predicted N Terminal	Met
Form	Supplied as a liquid In 20mM Tris-HCl buffer, pH 7.5, containing 0.1 M NaCl.
Molecular Mass	5.2 kDa (46 aa), confirmed by MALDI-TOF.
AA Sequence	MKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYPEA

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Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Notes	Small volumes of alpha Synuclein 96140 recombinant protein 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.
Storage	Store at 4 centigrade for short term storage (1/2 weeks). Aliquot and store at -20 centigrade or - 70 centigrade for long term storage. Avoid repeated freeze/thaw cycles.
Concentration	1 mg/ml (lot specific)

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

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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;
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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