

Recombinant Human SNCA, His-tagged

Cat. No. SNCA-245H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human SNCA was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	SNCA is a member of the synuclein family which also includes beta- and gamma-synuclein. These proteins are abundantly expressed in the brain and alpha- and beta-synuclein selectively inhibit phospholipase D2 which is a highly conserved protein that is also abundant in neurons, especially presynaptic terminals. SNCA gene is not a major risk factor in familial Parkinson disease. SNCA may serve to integrate pre-synaptic signaling and membrane trafficking and SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~18 kDa
Purity	>95% by densitometry
Applications	Western Blot
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.2 µg/µl

Full Length Full L.

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

MIM 163890

UniProt ID P37840

Chromosome Location 4q21.3-q22

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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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