

Recombinant Human Synuclein, Alpha (non A4 component of amyloid precursor)

Cat. No. SNCA-6937H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SNCA was expressed in E. coli-Lyophilized and it contained 140 amino acids. MW: 14.4 kDa.
Species	Human
Source	E.coli
ProteinLength	1-140 aa
Description	SNCA (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils. SNCA has been suggested to be implicated in the pathogenesis of Parkinson's disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells.
Form	Lyophilized from a 0.2 um filtered in 20 mM Tris-HCl buffer (pH 7.5) ,100 mM NaCl, 1mM MgCl ₂ .
Molecular Mass	14.4 kDa (140 aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).
AA Sequence	MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEGTK EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL

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	GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA
Endotoxin	< 1.0 eu per 1 ug of protein (determined by lal)
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	The product is shipped at ambient temperature. Upon receipt, store it immediately at 4°C for short term (1 month). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	N/A
Storage Buffer	Sterile distilled water at a concentration of 1mg/ml or less.

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

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Protein Refseq	NP_000336
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;