

# Recombinant Human Synuclein, Alpha (Non A4 Component of Amyloid Precursor), E46K

Cat. No. SNCA-294H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human $\alpha$ -Synuclein E46K was overexpressed in E. coli and purified to apparent homogeneity by using conventional column chromatography techniques (140 aa, 14.4 kDa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	$\alpha$ -Synuclein E46K is a mutant form of $\alpha$ -synuclein which is changed at position 46 from glutamate(E) to lysine(K). Recent studies have shown that this mutant (E46K) of $\alpha$ -synuclein causes Parkinson and Lewy Body dementia(DLB).
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 0.1 M NaCl.
<b>Molecular Weight</b>	14.4 kDa (Real molecular size on SDS-PAGE will be shift up).
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by BCA assay).
<b>Sequence</b>	MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKKGVVH GVATVAEKTK EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA

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**Storage** Store at -20 °C. Avoid freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** SNCA

**Synonyms** SNCA; synuclein, alpha (non A4 component of amyloid precursor); PD1; NACP; PARK1; PARK4; MGC110988; alpha-synuclein, isoform NACP140; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; alpha-synuclein; OTTHUMP00000161559; OTTHUMP00000161561; non A-beta component of AD amyloid; synuclein, alpha (non A4 component of amyloid precursor); Synuclein, alpha (non-Abeta component of Alzheimer"s disease amyloid precursor protein: NACP).

**Gene ID** 6622

**mRNA Refseq** NM\_000345.3

**Protein Refseq** NP\_000336.1

**MIM** 163890

**UniProt ID** P37840

**Chromosome Location** 4q21

**Pathway** Alzheimer"s disease;Neurodegenerative Disorders; Parkinson"s disease.

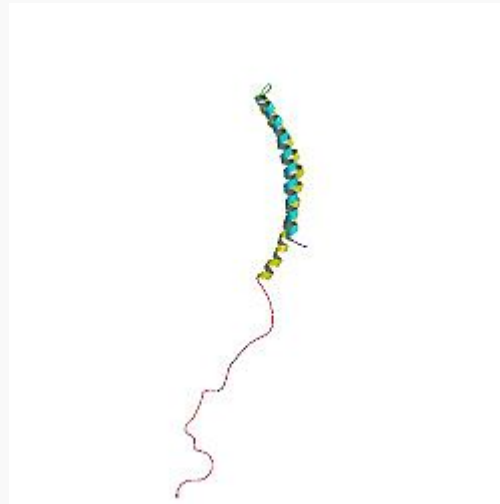
**Function** Hsp70 protein binding;alpha-tubulin binding; dynein binding; histone binding; kinesin binding; tau protein binding; transferrin transmembrane transporter activity.

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**PDBrendering based  
on 1xq8. Available  
structures: 1xq8.**



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