# Active Recombinant Full Length Human SNCA (E46K) Protein, Tag Free

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

## SPECIFICATION

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| **Product Overview** | Human Alpha-Synuclein (E46K), Tag Free is expressed from E.coli cells. It contains AA Met 1-Ala 140 (Accession # P37840-1 (E46K)). This protein carries no "tag". Predicted N-terminus: Met 1 |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-140 aa |
| **Description** | Alpha-synuclein is a neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. It acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. Abnormalities in alpha-synuclein are implicated in the pathogenesis of Parkinson's disease (PD). Alpha-synuclein is present in Lewy-bodies, the neuropathological hallmark of PD, and the protein and its aggregation have been widely linked to neurotoxic pathways that ultimately lead to neurodegeneration. |
| **Form** | Supplied as 0.2 μm filtered solution in 50mM HEPES, 100mM NaCl, pH8.0 with trehalose as protectant. |

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| **Bio-activity** | Immobilized Human Alpha-Synuclein (E46K), Tag Free at 1 μg/mL (100 μL/well) can bind Synuclein alpha/beta Monoclonal Antibody with a linear range of 0.1-4 ng/mL. |
| **Molecular Mass** | The protein has a calculated MW of 14.5 kDa. The protein migrates as 16 kDa under reducing (R) condition (SDS-PAGE). |
| **Purity** | >95% as determined by SDS-PAGE. |
| **Storage** | This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles. |
| **Concentration** | 0.2 mg/mL |
| **Shipping** | This product is supplied and shipped with dry ice, please inquire the shipping cost. |

## GENE INFORMATION

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| **Gene Name** | SNCA synuclein, alpha (non A4 component of amyloid precursor) [ Homo sapiens (human) ] |
| **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 |

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