Active Recombinant Full Length Human SNCA (A53T) Protein, Tag Free, low endotoxin

Cat. No. SNCA-77H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Alpha-Synuclein (A53T), Tag Free is expressed from E.coli cells. It contains AA Met 1-Ala 140 (Accession # P37840-1 (A53T)). 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 50 mM HEPES, 100 mM NaCl, pH7.5 with trehalose as protectant.

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Bio-activity	Immobilized Human Alpha-Synuclein (A53T), Tag Free at 1 μg/mL (100 μL/well) can bind Anti-Synucelin 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 15 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
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

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;

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Gene ID	6622
mRNA Refseq	NM_000345
Protein Refseq	NP_000336
MIM	163890
UniProt ID	P37840

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