

Active Recombinant Full Length Human SNCA (A53T) Protein, His Tagged

Cat. No. SNCA-11194H Lot. No. (See product label)

SPECIFICATION

Product Overview

Human Alpha-Synuclein (A53T), His Tag is expressed from E.coli cells. It contains AA Met 1-Ala 140 (Accession # P37840-1 (A53T)). This protein carries a polyhistidine tag at the C-terminus. 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

Lyophilized from 0.22 µm filtered solution in 100 mM NaAC, pH7.0 with trehalose as protectant.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Immobilized Human Alpha-Synuclein (A53T), His Tag at 1 µg/mL (100 µL/well) can bind Synuclein alpha/beta Monoclonal Antibody with a linear range of 1-31 ng/mL.
Molecular Mass	The protein has a calculated MW of 16.4 kDa. The protein migrates as 18-19 kDa under reducing (R) condition (SDS-PAGE).
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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;
Gene ID	6622

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_000345
Protein Refseq	NP_000336
MIM	163890
UniProt ID	P37840

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA