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SA6000X Human Alpha-Synuclein / SNCA (A30P Mutant) - Purified

Alternate names: NACP, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, PARK1

Quantity: 0.5 mg

Concentration: 1.0 mg/ml

Background: Alpha Synuclein is implicated in the regulation of dopamine release and transport. It is a soluble protein, expressed principally in the brain but also expressed in low concentrations in all tissues examined (except liver). In the nervous system, alpha Synuclein is primarily located at presynaptic terminals and is found membrane bound in dopaminergic neurons. It can form filamentous aggregates that are the major non amyloid component of intracellular inclusions in several neurodegenerative diseases (synucleinopathies), including Parkinson's Disease. Alpha Synuclein induces fibrillization of microtubule associated protein tau and reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase 3 activation. Alpha synuclein is a protein phosphorylated predominantly on serine residues.

Uniprot ID: P37840

NCBI: NP_000336.1

GeneID: 6622

Species: Human

Source: E. coli

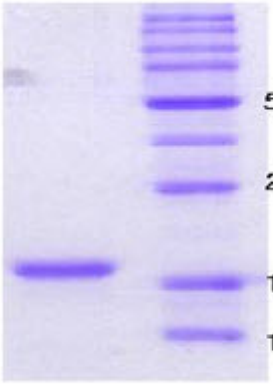
Format:
State: Liquid protein
Purity: >95% by SDS-PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 0.1 M NaCl

Description: A Parkinson's disease-related point mutant (A30P) of alpha-synuclein. A30P mutant of alpha-synuclein was overexpressed in E. coli and the recombinant protein was purified to apparent homogeneity by taking advantage of the thermosolubility of the protein and by using conventional column chromatography techniques.
AA Sequence:
MDVFMKGLSK AKEGVVAAAE KTKQGVAEAP GKTKEGVLYV GSKTKEGVVH GVATVAEKTK EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA
Molecular weight: 14.486 kDa (Real molecular size on SDS-PAGE will be shift up)

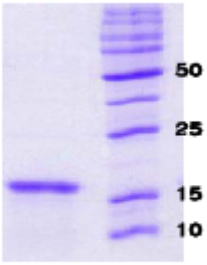
Storage: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Kruger R, et al. (1998) Nat Genet. 18, 106-108.
2. Park, S. M. et. al. (2002) Blood. 100(7), 2506-2514.

Pictures:



15% SDS-PAGE (3ug)



14% SDS-PAGE