Acetylated Alpha Synuclein Pre-formed Fibrils (Type 1) Recombinant Protein | SNCA recombinant protein

Human Recombinant N-Terminal Acetylated Alpha Synuclein Pre-formed Fibrils (Type 1)

CATALOG #	HOST	APPLICATIONS
AAA254082	**E coli**	**SDS-Page, Western Blot**

PRODUCT SYNONYMS

Acetylated Alpha Synuclein Pre-formed Fibrils (Type 1); Human Recombinant N-Terminal Acetylated Alpha Synuclein Pre-formed Fibrils (Type 1); Alpha Synuclein N-Terminal Acetylated Pre-formed Fibrils (Type 1); Alpha Synuclein N-Terminal Acetylated; N-acetylated Alpha synuclein monomer; N-terminal acetylated Alpha-synuclein monomer; Alpha synuclein protein monomer; Alpha synuclein monomer; Alpha-synuclein protein; Non-A beta component of AD amyloid protein; Non-A4 component of amyloid precursor protein; NACP protein; SNCA protein; PARK1 protein; Alpha synuclein monomers; SYN protein; Parkinson's disease familial 1 Protein; N?terminal Ac?alphasyn; SNCA recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	>95%; Ion-exchange Purified
Form/Format	PBS pH 7.4
Concentration	Lot/batch specific. See included datasheet. (varies by lot)
Sequence Length	Full Length
Applicable Applications for SNCA recombinant protein	Invitro Assay, SDS-PAGE, WB (Western Blot)
Species	Human
Conjugation	No Tag
Research Area	Neuroscience, Neurodegeneration, Alzheimer's Disease, Tangles & Tau, Neuroscience, Neurodegeneration, Parkinson's Disease, Synuclein, Neuroscience, Neurodegeneration, Multiple System Atrophy
Cellular Localization	Cytoplasm, Membrane, Nucleus
Certificate of Analysis	Acetylation cofirmed via ESI mass spectrometry.
Biological Activity	Seeds aggregation of N-acetylated alpha synuclein monomer in thioflavin T assay
Preparation and Storage	Store at -80 degree C

IMAGES

Application Data
ThioflavinTassayforN-terminalacetylatedalphasynucleinmonomers andpre-formedfibrils(PFFs)(AAA254082).Increasedfluorescence,indicativeofbeta-sheetformation,wasseenwhen50ugN-acetylatedmonomerand5ugN-acetylatedfibrilwerecombined,comparedtomonomerorfibrilalone.

Application Data
TEMofN-terminalacetylatedalphasynucleinpre-formedfibirls(PFFs)(AAA254082

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TEMofN-terminalacetylatedalphasynucleinpre-formedfibirls(PFFs)(AAA254082

ADDITIONAL INFORMATION

Related Product Information for SNCA recombinant protein	Alpha-Synuclein (SNCA) is expressed predominantly in the brain, where it is concentrated in presynaptic nerve terminals (1). Alpha-synuclein is highly expressed in the mitochondria of the olfactory bulb, hippocampus, striatum and thalamus (2). Functionally, it has been shown to significantly interact with tubulin (3), and may serve as a potential microtubule-associated protein. It has also been found to be essential for normal development of the cognitive functions; inactivation may lead to impaired spatial learning and working memory (4). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimers disease amyloid plaque, and a major component of Lewy body inclusions, and Parkinson's disease. Parkinson's disease (PD) is a common neurodegenerative disorder characterized by the progressive accumulation in selected neurons of protein inclusions containing alpha-synuclein and ubiquitin (5, 6). Alpha synuclein purified from both normal and pathological brain tissue is N-acetylated (7) and this post-translational modification affects affect alpha-synuclein stability and toxicity (8).
Product Categories/Family for SNCA recombinant protein	Proteins
References	1. "Genetics Home Reference: SNCA". US National Library of Medicine. (2013).2. Zhang L., et al. (2008) Brain Res. 1244: 40-52.3. Alim M.A., et al. (2002) J Biol Chem. 277(3): 2112-2117.4. Kokhan V.S., Afanasyeva M.A., Van'kin G. (2012) Behav. Brain. Res. 231(1): 226-230.5. Spillantini M.G., et al. (1997) Nature. 388(6645): 839-840.6. Mezey E., et al. (1998) Nat Med. 4(7): 755-757.7. Anderson, J.P. et al. (2006) J Biol Chem. 2006;281:29739-29752.8. Vinueza-Gavilanes, R. et al. (2020) Neurobiol Dis. 137, 2020, Article 104783

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
NCBI GenBank Nucleotide #	NM_000345.3
UniProt Accession #	P37840 ; Q13701; Q4JHI3; Q6IAU6; A8K2A4; P37840
Molecular Weight	14,460 Da
NCBI Official Full Name	alpha-synuclein isoform NACP140
NCBI Official Synonym Full Names	synuclein, alpha (non A4 component of amyloid precursor)
NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4
NCBI Protein Information	alpha-synuclein; synuclein alpha-140; non A-beta component of AD amyloid

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/acetylated-alpha-synuclein-pre-formed-fibrils-type-1-recombinant-protein-e-coli-invitro-assay-sds-page-wb-western-blot/254082