

Alpha Synuclein Protein Monomers Recombinant Protein | Snca recombinant protein

Rat Recombinant Alpha Synuclein Protein Monomers

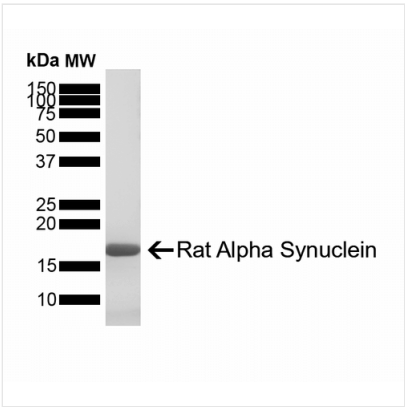
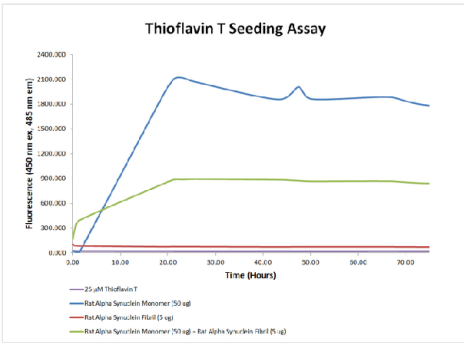
CATALOG # AAA254098	HOST E coli	APPLICATIONS SDS-Page, Western Blot
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PRODUCT SYNONYMS

Alpha Synuclein Protein Monomers; Rat Recombinant Alpha Synuclein Protein Monomers; Alpha Synuclein Monomers; Alpha Synuclein; Alpha synuclein pre-formed fibrils; Alpha synuclein aggregates; Alpha synuclein protein aggregates; Alpha-synuclein protein; Non-A beta component of AD amyloid protein; Non-A4 component of amyloid precursor protein; NACP protein; SNCA protein; PARK1 protein; SYN protein; Parkinson disease familial 1 Protein; 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	MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVTTVAEKTQ EQVTNVGGAV VTGVTAVAQK TVEGAGNIAA ATGFVKKDQM GKGEEGYPQE GILEDMPVDP SSEAYEMPSE EGYQDYEPEA
Sequence Length	Full Length
Applicable Applications for Snca recombinant protein	Invitro Assay, SDS-PAGE, WB (Western Blot)
Species	Rat
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	Certified >95% pure using SDS-PAGE analysis. Low endotoxin <5 EU/mL @ 2mg/mL.
Preparation and Storage	Store at -80 degree C



SDS-PAGE
SDS-PAGE of Rat Alpha Synuclein Protein Monomer (AAA254098)

Application Data
Thioflavin T is a fluorescent dye that binds to beta-sheet-rich structures, such as those in alpha-synuclein monomers and fibrils. Upon binding, the emission spectrum of the dye experiences a red-shift, and increased fluorescence intensity. The Rat Alpha Synuclein monomer (AAA254098) is very active and was able to form more beta-sheet structure alone than with the combination of monomer and fibril. In combination, the fibril is the majority of the seed.

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). The A53T mutation is a missense point mutation where alanine is replaced by threonine at the 53rd amino acid. This mutation has been linked to early-onset Parkinson's Disease and increased rates of alpha synuclein fibrillization.
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. Polymeropoulos, M. H. (1998). Science. 276(5321), 2045-2047.8. Conway, K.E., et al. (1998). Nat Med. 4(11):1318-20

NCBI AND UNIPROT INFORMATION

NCBI GI #	9507125
NCBI GeneID	29219
NCBI Accession #	NP_062042.1
NCBI GenBank Nucleotide #	NM_019169.2
UniProt Accession #	P37377; P37378; Q53YM9
Molecular Weight	4,354 Da
NCBI Official Full Name	alpha-synuclein
NCBI Official Synonym Full Names	synuclein, alpha (non A4 component of amyloid precursor)
NCBI Official Symbol	Snca
NCBI Protein Information	alpha-synuclein
UniProt Protein Name	Alpha-synuclein

UniProt Gene Name	Snca
UniProt Entry Name	SYUA_RAT

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/snca-recombinant-protein-e-coli-invitro-assay-sds-page-wb-western-blot/254098>