

Alpha Synuclein Oligomers (Dopamine HCL Stabilized) Recombinant Protein | SNCA recombinant protein

Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized)

CATALOG # AAA27710	HOST E coli	APPLICATIONS Western Blot, SDS-Page
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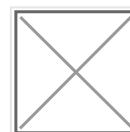
PRODUCT SYNONYMS

Alpha Synuclein Oligomers (Dopamine HCL Stabilized); Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized); Alpha Synuclein Oligomers; Alpha synuclein protein; Alpha-synuclein oligomer; Alpha synuclein protein oligomer; Alpha-synuclein protein; Non-A4 beta component of AD amyloid protein; Non-A4 component of amyloid precursor protein; NACP protein; SNCA protein; PARK1 protein; Alpha synuclein oligomers; Alpha Synuclein Protein Oligomers; SYN protein; Parkinson's disease familial 1 Protein; SNCA recombinant protein

PRODUCT SPECIFICATIONS

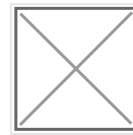
Host	E coli
Purity/Purification	>95%; Ion-exchange Purified. Monomeric alpha synuclein was removed via filtration.
Form/Format	PBS pH 7.4
Concentration	Lot/batch specific. See included datasheet. (varies by lot)
Sequence Length	Full length
Applicable Applications for SNCA recombinant protein	WB (Western Blot), SDS-PAGE, Invivo Assay, Invitro Assay
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	Certified >95% pure using SDS-PAGE analysis. Low endotoxin <5 EU/mL @ 2mg/mL.
Preparation and Storage	Store at -80 degree C

IMAGES



Application Data

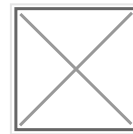
Coomassie gel stain of human dopamine-stabilized alpha synuclein oligomers (AAA27710). Load: 2 µg.



Application Data

Evaluation of a-

syn toxicity on primary mouse cortical neurons. Lactate dehydrogenase (LDH) is a soluble enzyme present in the cytosol that is released upon cell death. Toxicity was assessed with an LDH assay and displayed as % of vehicle. way ANOVA followed by Bonferroni post-hoc test (vs VC) was used. ***p



Application Data

TEM of Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized) (AAA27710)

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). Dopamine inhibits alpha synuclein fibrillogenesis leading to oligomer accumulation in vitro (7), (8) and in vivo (9), (10).
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. Conway, K.A. et al. (2001) Science 294:1346-1349.8. Norris, E.H. et al. (2005) J Biol Chem. 280:21212-21219.9. Mazulli, J.R. et al. (2006). J Neurosci. 26:10068-10078.10. Mazulli, J.R. et al. (2007). J Biol Chem. 282:31621-31630.

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/alpha-synuclein-oligomers-dopamine-hcl-stabilized-recombinant-protein-e-coli-wb-western-blot-sds-page-invivo-assay-invitro-assay/27710>