

Alpha Synuclein Protein

Human Recombinant Alpha Synuclein
Oligomers (Dopamine HCL Stabilized)
Catalog No. SPR-466



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Product Name

Alpha Synuclein Protein

Description

Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized)

Applications

WB, SDS-PAGE, In vivo assay, In vitro assay

Concentration

Lot/batch specific. See included datasheet.

Conjugates

No tag

Nature

Recombinant

Species

Human

Expression System

E. coli

Purity

>95%

Protein Length

Full Length

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For research use only.

Properties

Storage Buffer

PBS pH 7.4

Storage Temperature

-80°C

Shipping Temperature

Dry Ice. Shipping note: Product will be shipped separately from other products purchased in the same order.

Purification

Ion-exchange Purified, Monomeric alpha synuclein was removed via filtration.

Specificity

~14.46kDa

Appearance

Dark brown (due to dopamine oxidation)

Cite This Product

Human Recombinant Alpha Synuclein Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-466)

Certificate Of Analysis

Certified >95% pure using SDS-PAGE analysis.

Biological Description

Alternative Names

Alpha synuclein protein, Alpha-synuclein oligomer, Alpha synuclein protein oligomer, Alpha-synuclein protein, Non-A beta component of AD amyloid protein, Non-A4 component of amyloid precursor protein, NACP protein, SNCA protein, NACP protein, PARK1 protein, Alpha synuclein oligomers, Alpha Synuclein Protein Oligomers, SYN protein, Parkinson's disease familial 1 Protein

Research Areas

Alzheimer's Disease, Neurodegeneration, Neuroscience, Parkinson's Disease, Synuclein, Tangles & Tau

Cellular Localization

Cytoplasm, Membrane, Nucleus

Accession Number

NP_000336.1


Gene ID

6622

Swiss Prot

P37840

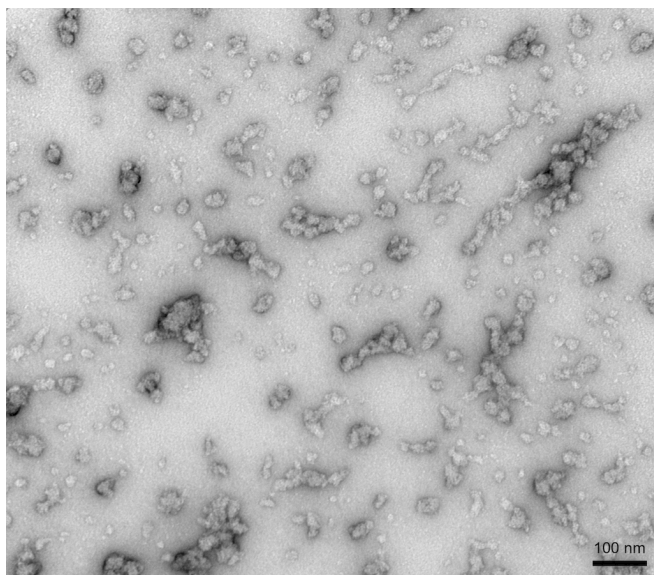
Scientific Background

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 Alzheimer's 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). 

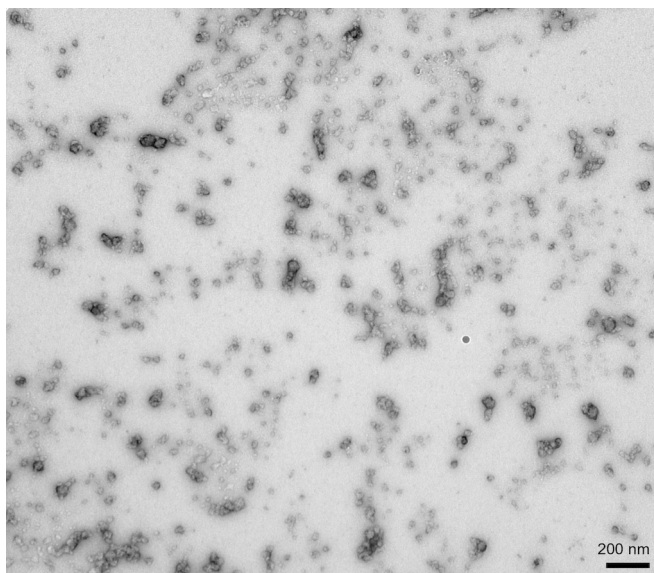
References

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.
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Product Images



TEM of Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized) (SPR-466)



TEM of Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized) (SPR-466)

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.