

Recombinant Human SNCA Protein

Cat. No. SNCA-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Recombinant Alpha Synuclein Oligomers (Dopamine HCL Stabilized) without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Alternatively spliced transcripts encoding different isoforms have been identified for this gene.
Purity	> 95% pure using SDS-PAGE analysis.
Applications	WB, SDS-PAGE, In vivo assay, In vitro assay
Storage	At -80 centigrade.
Storage Buffer	PBS, pH 7.4.
Shipping	Dry Ice.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name SNCA synuclein alpha [Homo sapiens (human)]

Official Symbol SNCA

Synonyms SNCA; synuclein alpha; PD1; NACP; PARK1; PARK4; alpha-synuclein; I+/- synuclein; non A-beta component of AD amyloid; synuclein alpha-140; synuclein, alpha (non A4 component of amyloid precursor); truncated alpha synuclein

Gene ID 6622

mRNA Refseq NM_000345

Protein Refseq NP_000336

MIM 163890

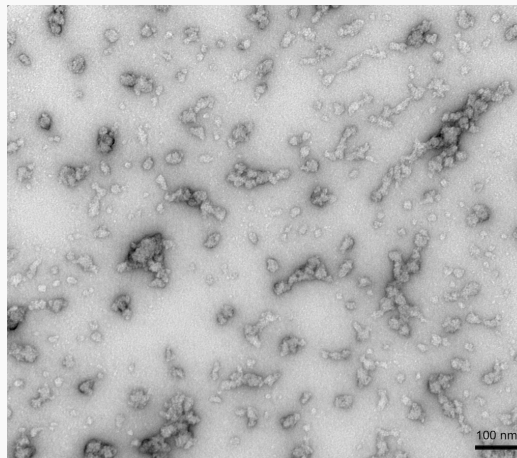
UniProt ID P37840

 Tel: 1-631-559-9269 1-516-512-3133

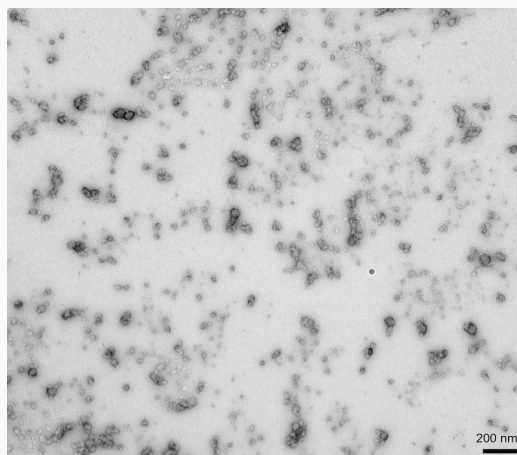
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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



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

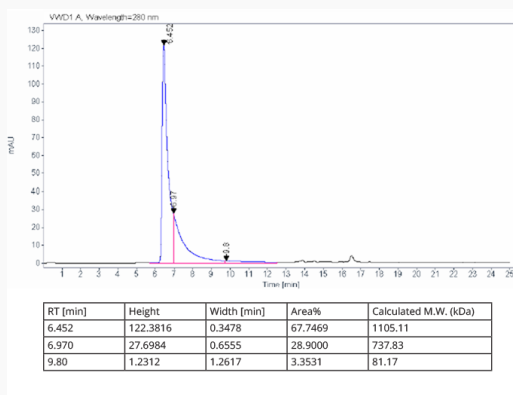


 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HPLC of Alpha Synuclein Protein Oligomers ran down a size exclusion column.



Wavelength: 280 nm.

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 control (VC). Data are presented as bar graphs and standard deviation. For statistical analysis One-way ANOVA followed by Bonferroni post-hoc test (vs VC) was used. *** $p < 0.001$. Treatment with dopamine-stabilized oligomers was accompanied by a significant increase of LDH release.

Evaluation of a-syn toxicity on primary mouse cortical neurons.

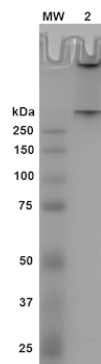
Mitochondrial dehydrogenase activity, which reduces yellow MTT to dark blue formazan crystals, is a reaction that is catalyzed in living cells. Cell viability was assessed with an MTT assay and displayed as % of vehicle control (VC). Data are presented as bar graphs and standard deviation. For statistical analysis One-way ANOVA followed by Bonferroni post-hoc test (vs VC) was used. ** $p < 0.01$, *** $p < 0.001$. Both types of PFFs led to a decrease of viability of approximately 25% independent of sonication. Dopamine-stabilized oligomers led to the strongest decrease of viability.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

**Coomassie gel stain
of human dopamine-
stabilized alpha
synuclein oligomers.**



Load: 2 μ g

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA