Product Datasheet

Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein

NBP2-61596-100ug

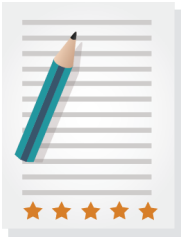
Unit Size: 1 x 100ug Vials

Store at -80C in the dark. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-61596

Updated 10/23/2024 v.20.1



NBP2-61596-100ug

Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein

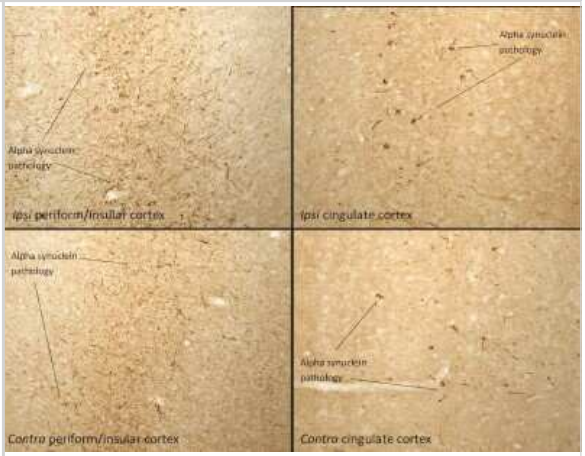
Product Information	
Unit Size	1 x 100ug Vials
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -80C in the dark. Avoid freeze-thaw cycles.
Purity	Ion exchange chromatography
Buffer	PBS
Target Molecular Weight	14.46 kDa

Product Description	
Description	Active Mouse Recombinant Alpha Synuclein Protein Aggregate (pre-formed fibrils, Type 1). NCBI Accession #: NP_001035916.1. **Source:** *E. coli* **Amino Acid Sequence:** MDVFMKGLSKAKEGVVAAAEKTKQGVAEAAGKTKEGVLYVGSKTKEGVVHGV TTVAEKTKEQVTNVGGAVVTGVTAVAQKTVEGAGNIAAATGFVKKDQMGKGE EGYPQE GILEDMPVDPGSEAYEMPSEEGYQDYEPEA
Gene ID	6622
Gene Symbol	SNCA
Species	Mouse
Details of Functionality	Endogenous alpha-synuclein phosphorylation. 100 uM alpha synuclein protein monomer (NBP2-61595) seeded with 10 nM alpha synuclein protein PFF (NBP2-61596) in 25 uM Thioflavin T (PBS pH 7.4, 100 ul reaction volume) generated an increased fluorescence intensity after incubation at 37C with shaking at 600 rpm for 24 hours. Fluorescence was measured by excitation at 450 nm and emission at 485 nm on a Molecular Devices Gemini XPS microplate reader.

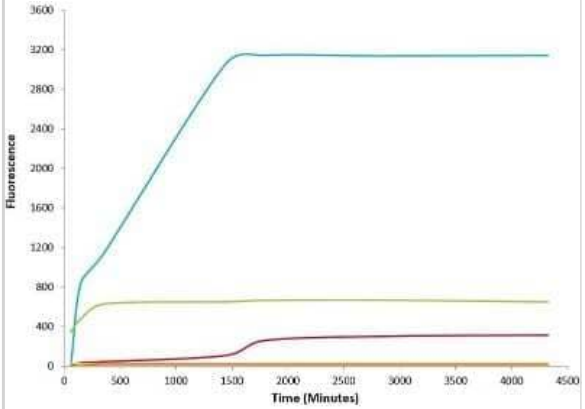
Product Application Details	
Applications	Western Blot, Electron Microscopy, Immunohistochemistry, In vitro assay, In vivo assay, SDS-Page, Bioactivity
Recommended Dilutions	Western Blot, Immunohistochemistry, In vitro assay, Electron Microscopy, In vivo assay, SDS-Page, Bioactivity

Images

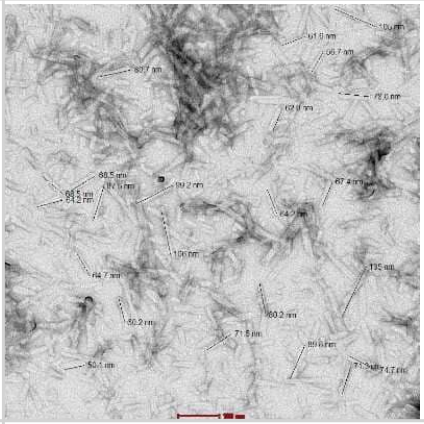
Immunohistochemistry: Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein [NBP2-61596] - Immunohistochemistry analysis of rat brain injected with Type 1 mouse alpha synuclein PFFs (NBP2-61596). Species: Female Sprague-Dawley Rat. Rat was injected with 16g Type 1 mouse alpha synuclein PFFs (NBP2-61596) in each of 2 injection sites: AP+1.6, ML+2.4, DV-4.2 from skull; and AP-1.4, ML+0.2, DV-2.8 from skull. 30 days post-injection. Fixation: Saline perfusion followed by 4% PFA fixation for 48 hrs. Primary antibody: rabbit monoclonal anti-pSer129 alpha synuclein. Secondary Antibody: Biotin-SP Donkey Anti-Rabbit IgG (H+L) at 1:500 for 2 hours in cold room with shaking. ABC signal amplification, DAB staining. Magnification: 20X. Alpha synuclein pathology is seen in the periform/insular cortex and the cingulate cortex on both the same (ipsi) and opposite (contra) sides as the injection sites.



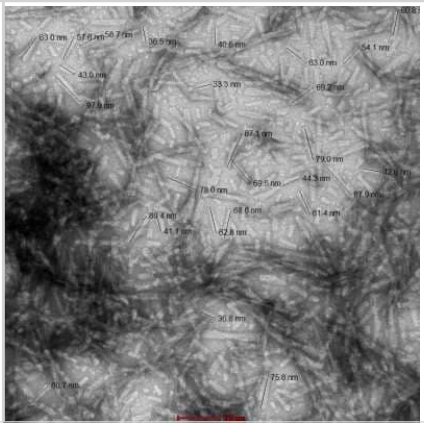
In vitro assay: Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein [NBP2-61596] - Active alpha synuclein aggregate seeds the formation of new alpha Synuclein aggregates from the pool of active monomers. Thioflavin T is a fluorescent dye that binds to beta sheet-rich structures, such as those in alpha Synuclein aggregates. Upon binding, the emission spectrum of the dye experiences a red-shift, and increased fluorescence intensity. Thioflavin T emission curves show increased fluorescence (correlated to alpha Synuclein protein aggregation) over time when 10 nM of active alpha Synuclein aggregate is combined with 100 uM of active alpha Synuclein monomer, as compared to active alpha Synuclein aggregate and active alpha Synuclein monomer alone. Thioflavin T excitation maximum = 450 nm; emission maximum = 485 nm.



Electron Microscopy: Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein [NBP2-61596] - TEM of Type 1 mouse alpha synuclein Pre-formed Fibrils (NBP2-61596). Fibrils were sonicated and image was taken at 100kx magnification.



Electron Microscopy: Recombinant Mouse alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein [NBP2-61596] - TEM of Type 1 mouse alpha synuclein Pre-formed Fibrils (NBP2-61596). Image was taken at 100kx magnification.



Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-61596-100ug

NBP2-54789-100ug	Recombinant Human alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein
BC100-494	PINK1 Antibody - BSA Free
NBP2-15365	alpha-Synuclein Antibody
NB300-109	Tyrosine Hydroxylase Antibody

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-61596

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications