

# Mouse alpha Synuclein protein (active, Pre-Formed Fibrils)

## Cat No. GTX17671-pro

<b>Application</b>	Functional Assay
<b>Species</b>	Mouse

**Package**  
200 µg, 100 µg

### PRODUCT

**Summary** Active Mouse Recombinant Alpha Synuclein Pre-formed Fibrils (Type 1)

### APPLICATION

#### Application Note

Endogenous alpha-synuclein phosphorylation. 100 µM alpha synuclein protein monomer (GTX17670-pro) seeded with 10 nM alpha synuclein protein PFF (GTX17671-pro) in 25 µM Thioflavin T (PBS pH 7.4, 100 µl reaction volume) generated an increased fluorescence intensity after incubation at 37°C 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.

### PROPERTIES

<b>Form</b>	Liquid
<b>Buffer</b>	PBS
<b>Storage</b>	Store as concentrated solution. Aliquot and store at -20°C or below. Avoid freeze-thaw cycles.
<b>Concentration</b>	batch dependent (Please refer to the vial label for the specific concentration.)
<b>Region/Sequence</b>	Full-length without tagged; MDVFMKGLSK AKEGVAAAE KTKQGVAAEA GKTKEGVLYV GSKTKEGWVH GVTVAEKTKEQVTNVGGAV VTGVTAVAQK TVEGAGNIAA ATGFVKKDQM GKGEEGYPQE GILEDMPVDP GSEAYEMPSE EGYQDYEPEA
<b>Expression System</b>	E. coli
<b>Purification</b>	Purified by ion-exchange chromatography
<b>Purity</b>	> 95% by SDS-PAGE
<b>Conjugation</b>	Unconjugated
<b>Note</b>	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



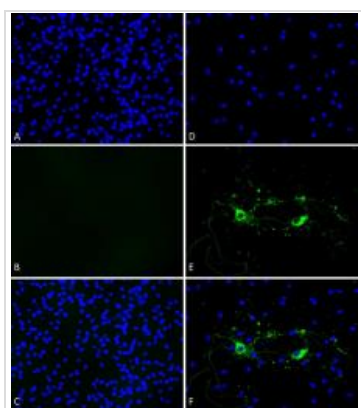
For full product information, images and publications, please visit our [website](#).

DATA IMAGES



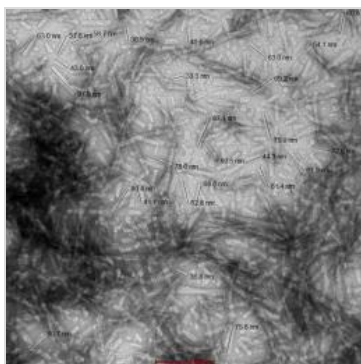
**GTX17671-pro Functional Assay Image**

Immunohistochemistry analysis of rat brain injected with active mouse alpha synuclein PFFs (GTX17671-pro). Species: Female Sprague-Dawley Rat. Rat was injected with 2µL active mouse alpha synuclein PFFs (GTX17671-pro) 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. 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.



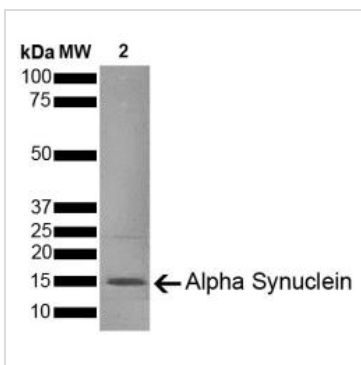
**GTX17671-pro Functional Assay Image**

Primary rat hippocampal neurons (DIV16) show lewy body inclusion formation and loss of cells when treated with active mouse Alpha Synuclein Protein Preformed Fibrils (GTX17671-pro) at 4 µg/ml (D-F) on DIV12, but not when treated with a control (A-C). Tissue: Primary hippocampal neurons. Species: Sprague-Dawley rat. Fixation: 3% formaldehyde from PFA for 20 min. Blocker: 1:1 PBS:LiCOR Odyssey Block (LiCOR, 927-40010) and 30 mL/mL of 0.1% triton-X 100 for 30 min. Primary Antibody: Mouse anti-pSer129 Antibody (1:1000) and Rabbit anti-pSer129 (1:800) for 24 hours at 4°C. Secondary Antibody: ATTO 546 Donkey Anti-Mouse (1:700) and ATTO 488 Donkey Anti-Rabbit (1:700) for 1 hour at RT (composite green). Counterstain: Hoechst (blue) nuclear stain at 1:3000 for 1 hour at RT. Localization: Lewy body inclusions. Magnification: 20x.



**GTX17671-pro Image**

TEM of active mouse alpha synuclein preformed fibrils (GTX17671-pro). Image was taken at 100kx magnification.



**GTX17671-pro Image**

SDS-PAGE of ~14 kDa active Mouse alpha Synuclein protein (active, fibrils) (GTX17671-pro). Lane 1: Molecular Weight Ladder (MW). Lane 2: active Mouse alpha Synuclein protein (active, fibrils) (2 µg) (GTX17671-pro).



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