

Human alpha Synuclein protein (active, Pre-Formed Fibrils)

Cat. No. GTX17669-pro

Application	Functional Assay	<mark>Package</mark> 200 μg, 100 μg
Species	Human	13/13

PRODUCT	
Summary	Active Human Recombinant Alpha Synuclein Pre-formed Fibrils (Type 1)
APPLICATION	

Application Note

Endogenous alpha-synuclein phosphorylation. 100 μ M alpha synuclein protein monomer (GTX17668-pro) seeded with 10 nM alpha synuclein protein PFF (GTX17669-pro) in 25 μ M Thioflavin T (PBS pH 7.4, 100 μ l reaction volume) generated a fluorescence intensity of 13,000 Relative Fluorescence Units after incubation at 37°C with shaking at 600 rpm. Fluorescence was measured by excitation at 450 nm and emission at 485 nm on a Molecular Devices Gemini XPS microplate reader.

*For best results, sonicate immediately prior to use.

PROPERTIES		
Form	Liquid	
Buffer	PBS	
Preservative	No preservative	
Storage	Store as concentrated solution. Aliquot and store at -20°C or below. Avoid freeze-thaw cycles.	
Concentration	Batch dependent (Please refer to the vial label for the specific concentration.)	
Region/Sequence	Full-length without tagged; MDVFMKGLSK AKEGVVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTK EQVTNVGGAV VTGVTAVAQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA	
Expression System	E. coli	
Purification	Purified by ion-exchange chromatography	
Purity	> 95% by SDS-PAGE	
Conjugation	Unconjugated	
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	
11010	Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.	



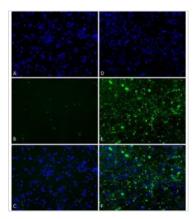
For full product information, images and publications, please visit our <u>website</u>.

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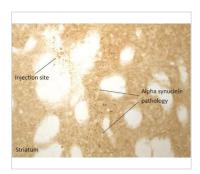
DATA IMAGES



GTX17669-pro Functional Assay Image

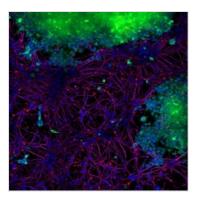
Primary rat hippocampal neurons show lewy body inclusion formation when treated with active Alpha Synuclein Protein Preformed Fibrils (GTX17669-pro) at 4 μ g/ml (D-F), but not when treated with control Alpha Synuclein Protein Preformed Fibrils (GTX17667-pro) at 4 μ g/ml (A-C).

Tissue: Primary hippocampal neurons. Species: Sprague-Dawley rat. Fixation: 4% formaldehyde from PFA. Primary Antibody: Mouse anti-pSer129 Antibody at 1:1000 24 hours at 4°C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:700 for 1 hours at RT. Counterstain: Hoechst (blue) nuclear stain at 1:4000 for 1 hour at RT. Localization: Lewy body inclusions. Magnification: 20x.



GTX17669-pro Functional Assay Image

Immunohistochemistry analysis of rat brain injected with active human alpha synuclein PFFs (GTX17669-pro). Species: Female Sprague-Dawley Rat. Rat was injected with 2μL active human alpha synuclein PFFs (GTX17669-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 striatum close to an injection site.



GTX17669-pro Functional Assay Image

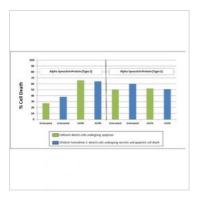
Alpha Synuclein Protein Preformed Fibrils (GTX17669-pro) was shown to be taken up by SH-SY5Y cells and transmitted to neuronal iPSCs within 14 days.

Blue : Hoechst

Green: SH-SY5Y-GFP

Red: Alpha Synuclein Protein Preformed Fibrils (GTX17669-pro)

Purple: Tubulin



GTX17669-pro Functional Assay Image

Toxicity results comparing active Human alpha Synuclein protein (Pre-Formed Fibrils) (GTX17667-pro) and active Alpha Synuclein Protein Preformed Fibrils (GTX17669-pro). Data was graphed after live cell imaging results were obtained using the following procedure: After 8 days in vitro, primary rat mixed cortical neuron cells were treated with 500 μ g/ml of Type 1 and Type 2 Alpha Synuclein Proteins for 20 hours at 37°C.



For full product information, images and publications, please visit our <u>website</u>.

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