Human alpha Synuclein protein (active, monomer)

Cat. No. GTX17668-pro

Applications	Functional Assay
Species	Human

Package
200 µg, 100 µg

Applications

Application Note

100 µM alpha synuclein protein monomer (GTX17668-pro) seeded with 10 nM alpha synuclein protein pre-formed fibrils (GTX17669-pro) in 25 µM Thioflavin T (PBS pH 7.4, 100 µl reaction volume) generated a fluorescence intensity of 13,000 Relative Fluorescence Units after incubation at 37ºC 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

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Aliquot and store at -80ºC 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. 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 website.

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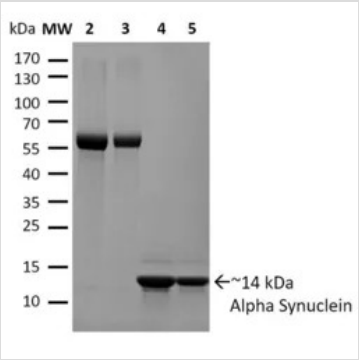
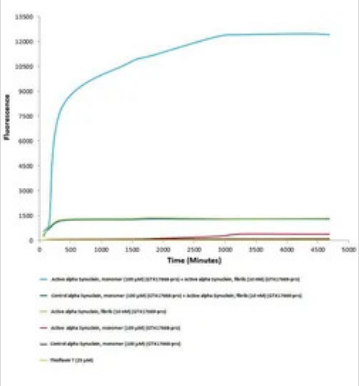
DATA IMAGES



GTX17668-pro Image

SDS-PAGE of ~14 kDa Human alpha Synuclein protein (active, monomer) (GTX17668-pro).
Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (5 µg). Lane 3: BSA (2.5 µg). Lane 4: Human alpha Synuclein protein (active, monomer) (5 µg) (GTX17668-pro). Lane 5: Human alpha Synuclein protein (active, monomer) (2.5 µg) (GTX17668-pro).



GTX17668-pro Image

Active alpha synuclein preformed fibrils (GTX17669-pro) seed the formation of new alpha synuclein fibrils from the pool of alpha synuclein monomers (GTX17668-pro). Thioflavin T is a fluorescent dye that binds to beta sheet-rich structures, such as those in alpha synuclein fibrils. 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 preformed fibrils (GTX17669-pro) is combined with 100 µM of alpha synuclein monomer (GTX17668-pro), as compared to when 10 nM of active alpha synuclein preformed fibrils (GTX17669-pro) is combined with 100 µM of alpha Synuclein monomer (GTX17666-pro). Thioflavin T ex = 450 nm, em = 485 nm.

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