

# Product Datasheet

## Recombinant Mouse alpha-Synuclein Active, Monomer, (Type 1) Protein NBP2-61595-100ug

Unit Size: 1 x 100ug Vials

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

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**NBP2-61595-100ug**

Recombinant Mouse alpha-Synuclein Active, Monomer, (Type 1) Protein

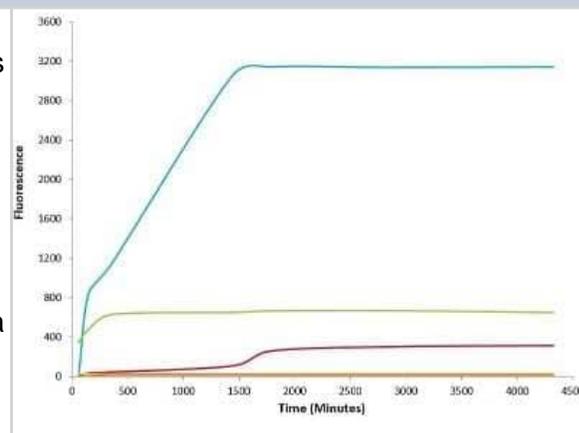
Product Information	
Unit Size	1 x 100ug Vials
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -80C in the dark. Avoid freeze-thaw cycles.
Purity	Ion exchange chromatography
Buffer	PBS
Target Molecular Weight	14.46 kDa

Product Description	
Description	Active Mouse Recombinant Alpha Synuclein Protein Monomer, NCBI Accession #: NP_001035916.1.  <b>Source:</b> <i>E. coli</i>  <b>Amino Acid Sequence:</b> MDVFMKGLSKAKEGVVAAAE KTKQGVAAEAGKTKEGVLYVGSKTKEGVVHGVTTVAEKTKEQVTNVGGAVVT GVTAVAQKTVEGAGNIAAATGFVKKDQMGKGEEGYPQEGILEDMVPDPGSEA YEMPSEEGYQDYPEA
Gene ID	6622
Gene Symbol	SNCA
Species	Mouse
Details of Functionality	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, In vitro assay, In vivo assay, SDS-Page, Bioactivity
Recommended Dilutions	Western Blot, In vitro assay, In vivo assay, SDS-Page, Bioactivity

**Images**

In vitro assay: Recombinant Mouse alpha-Synuclein Active, Monomer, (Type 1) Protein [NBP2-61595] - 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.



## Publications

Kim Y, Geng L, Lenhart AE et al. Measurement of alpha-Synuclein Dynamics In Vivo Using Microdialysis with a Novel Homogeneous Immunoassay ACS chemical neuroscience 2022-08-12 [PMID: 35959902] (BA, Mouse)

Sterling JK, Kam TI, Guttha S et al. Interleukin-6 triggers toxic neuronal iron sequestration in response to pathological alpha-synuclein Cell reports 2022-02-15 [PMID: 35172141]





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### **Products Related to NBP2-61595-100ug**

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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

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