

EndoClear Mouse Recombinant alpha-Synuclein Protein

Revision Number: 2.0 Last updated: 18March2024

Catalog #	AS-56082
Size	100 μg, 500 μg, 1000 μg

Product Name: EndoClear Mouse Recombinant alpha-Synuclein Protein

Catalog Number: AS-56082

Lot Number: See label on the vial

Amount/size: 100 μg, 500 μg, 1000 μg

Source: The sequence (Accession # NP_001035916) corresponding to the full-length mouse a-synuclein protein plus an affinity tag was expressed in E. coli. The recombinant a-synuclein protein was purified from bacterial lysate using a proprietary method, including tag cleavage. The resulting protein contains an additional Gly at the N-term of the a-synuclein sequence. The calculated molecular mass of the recombinant a-synuclein protein is ~14.4 kDa.

Activity: α-synuclein was assayed for the fibrillation properties using Thioflavin T assay.

Applications: Fibrillation, oligomerization, cell toxicity studies.

Purity: Greater than 90% as determined by SDS-PAGE.

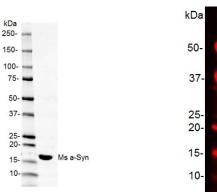
Endotoxin: Less than 0.1 EU per ug/protein as tested by LAL method.

Storage: The purified α-synuclein is supplied as lyophilized powder salt free. Store at 2-4 °C for immediate

use within 1-2 weeks or at -80 °C for up to 12 months.

Instructions:

A-synuclein is a major component of Lewy bodies in the affected neurons in Parkinson's disease.¹⁻⁴ This protein consists of a conserved degenerative amino-terminal domain and an acidic carboxyl-terminal with higher sequence divergence.¹⁻⁴ A-synuclein is predominantly expressed in brain: specifically in cerebellum, thalamus, neocortex, hippocampus, and striatum regions.¹⁻² Other tissues express α-synuclein at very low levels.¹⁻⁴ The physiological role of α-synuclein is not yet well understood. However, the presence of imperfect KTKEGV lipid interacting repeats suggests that it may be involved in synaptic vesicle homeostasis.³



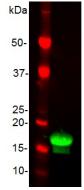


Figure 1. Mouse α-synuclein on SDS-PAGE. Purified protein was loaded onto 10-20% Tris-HCl gel at 3 μ g/well.

Figure 2. Western Immunoblot of mouse α -synuclein. Purified mouse α -synuclein protein was probed with anti- α -synuclein specific antibody.

<u>Figure 1</u>. <u>Figure 2</u>.

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Related Products

Product Name	Cat. #
Recombinant human α - synuclein, HiLyte Fluor™488 labeled	55457
SensoLyte® Anti-α-Synuclein (Human) ELISA Kit	55550-H
SensoLyte® Anti-α-Synuclein (Rat) ELISA Kit	55550-R
EndoClear™* Human Recombinant alpha - Synuclein	55555
EndoClear™Plus Recombinant Human alpha - Synuclein	56081
Recombinant human α - synuclein, biotin labeled	55581
EndoClear™* Rat Recombinant alpha - Synuclein	56083

References:

- 1. Rivers, R. et al. Protein Science 17, 887-898 (2008).
- 2. Bruening, W. et al. Cancer. 88, 9, 2154-2163 (2000).
- 3. George M. J. Genome Biology 3, 1, 1-6 (2001).
- 4. Latawiec, D. et al. PloS ONE 5, 2, 1-8 (2010).

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