

Product Information Sheet

Product Name: EndoClear™ Mouse Recombinant alpha-Synuclein Protein

(< 0.1 EU per µg 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 α-synuclein

protein was expressed in *E. coli*. The recombinant α -synuclein protein was purified from bacterial lysate using proprietary method. The molecular weight of the recombinant α -synuclein protein is

~14.5 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.

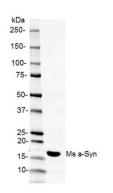
Endotoxin: Less than 0.1 EU per µg/protein as tested by LAL method.

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:

α-synuclein is a major component of Lewy bodies in the affected neurons in Parkinson's disease. This protein has a mass of 14.5 kDa (140 amino acids long) and consists of a conserved degenerative amino-terminal domain and an acidic carboxyl-terminal with higher sequence divergence. A-synuclein is predominantly expressed in brain: specifically in cerebellum, thalamus, neocortex, hippocampus, and striatum regions. Other tissues express α-synuclein at very low levels. The physiological role of α-ynuclein is not yet well understood. However, the presence of imperfect KTKEGV lipid interacting repeats suggests that it may be involved in synaptic vesicle homeostasis.



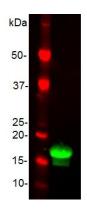


Figure 1. Mouse α-synuclein on SDS-PAGE. Purified protein was loaded onto 10-20% Tris-HCl gel at 3 μg/well.

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

Figure 1. Figure 2.

^{*} previously referred to as: EndoFree human a-synuclein recombinant protein

Related Products

Product Name	Cat. #
Recombinant human α - synuclein (1 - 140), HiLyte Fluor™488 labeled	AS-55457
Recombinant Human β - Synuclein (1 - 134)	AS-55458-100
	AS-55458-500
	AS-55458-1000
SensoLyte® Anti-α-Synuclein (Human) ELISA Kit	AS-55550-H
SensoLyte [®] Anti-α-synuclein (Rat) ELISA Kit	AS-55550-R
EndoClear™* Human Recombinant alpha - Synuclein	AS-55555-100
	AS-55555-500
	AS-55555-1000
EndoClear™Plus Recombinant Human alpha - Synuclein	AS-56081-100
	AS-56081-500
Recombinant human α - synuclein (1 - 140), biotin labeled	AS-55581
EndoClear™ Rat Recombinant alpha - Synuclein	AS-56083-100
	AS-56083-500
	AS-56083-1000

References:

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

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