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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Alpha Synuclein Monomers: Biotinylated (C- terminus)

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Human Recombinant Alpha Synuclein  
Monomers: Biotinylated (C-terminus)  
Catalog No. SPR-507

## Product Name

Alpha Synuclein Monomers: Biotinylated (C-terminus)

## Description

Human Recombinant Alpha Synuclein Monomers: Biotinylated (C-terminus)

## Applications

WB, SDS PAGE, In vitro Assay, In vivo Assay

## Concentration

2 mg/ml or 5 mg/ml

## Conjugates

C-terminal 15 amino acid tag: biotinylated

## Nature

Recombinant

## Species

Human

## Expression System

E. coli

## Amino Acid Sequence

MDVFMKGLSKAKEGVVAAAETKQGVAAEAGKTKEGVLYVGSKTKEGVVH GVATVAEKTKEQVTNVGGAVVTGVTAVAQ  
KTVEGAGSIAAATGFVKKDQL GKNEEGAPQEGILEDMPVDPDNEAYEMPSEEGYQDYEP EAGLNDIFEAQK IEWHE

## Purity

> 95% based on SDS-PAGE and nanodrop analysis.

## Other Resources

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**Protein Length**

155 aa

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**Protein Size**

16.27 kDa

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**Field Of Use**

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

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**Properties**

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**Storage Buffer**

PBS pH 7.4

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**Storage Temperature**

-80°C

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**Shipping Temperature**

Dry Ice. Shipping note: Product will be shipped separately from other products purchased in the same order.

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**Purification**

Ion-exchange Purified

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**Cite This Product**

Human Recombinant Alpha Synuclein Monomers: Biotinylated (C-terminus) (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-507)

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**Certificate Of Analysis**

Protein certified > 95% pure via SDS-PAGE and nanodrop analysis. Low endotoxin (< 5 EU/mL) at 2 mg/mL.

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**Other Relevant Information**

For corresponding PFFs, see catalog# SPR-508.

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**Biological Description**

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**Alternative Names**

Alpha synuclein monomer, Alpha-synuclein monomer, Alpha synuclein protein monomer, Alpha synuclein monomer, Alpha-synuclein protein, Non-A beta component of AD amyloid protein, Non-A4 component of

amyloid precursor protein, NACP protein, SNCA protein, NACP protein, PARK1 protein, Alpha synuclein monomers, SYN protein, Parkinson disease familial 1 Protein

## Research Areas

Alzheimer's Disease, Neurodegeneration, Neuroscience, Parkinson's Disease, Synuclein, Tangles & Tau, Multiple System Atrophy

## Swiss Prot

P37840

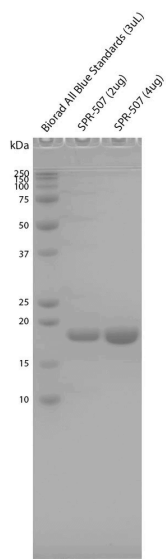
## Scientific Background

A 15 amino acid tag on the C-terminal tail of Alpha Synuclein facilitates site-specific covalent biotinylation (1). Biotinylation of purified alpha synuclein allows for many biological applications, such as monitoring and detection using streptavidin-based conjugates (1, 2, 3). Our biotinylated monomers are also used to generate pre-formed fibrils in-vitro.

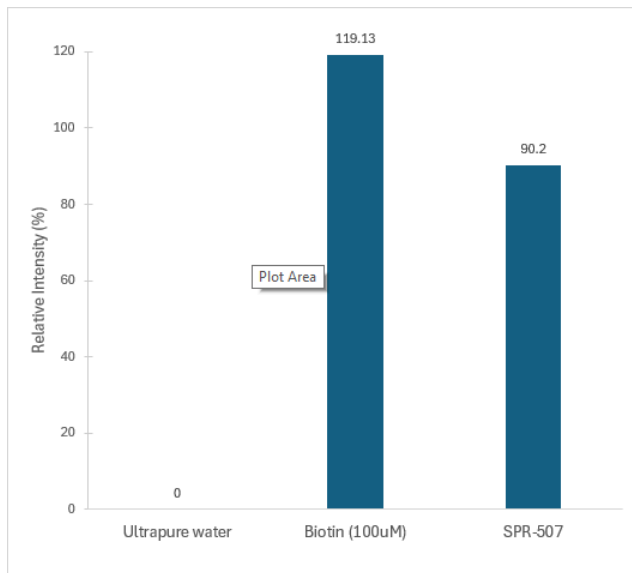
## References

1. Fairhead & Howarth. 2015. Site-specific biotinylation of purified proteins using BirA. *Methods in Molecular Biology*. DOI: 10.1007/978-1-4939-2272-7\_12
2. Hallacli et al. 2022. The Parkinson's disease protein alpha synuclein is a modulator of Processing-bodies and mRNA stability. *Cell*. DOI: 10.1016/j.cell.2022.05.008
3. Li et al. 2019. Naturally occurring antibodies isolated from PD patients inhibit synuclein seeding in vitro and recognize Lewy pathology. *Acta neuropathologica*. DOI: 10.1007/s00401-019-01974-5.

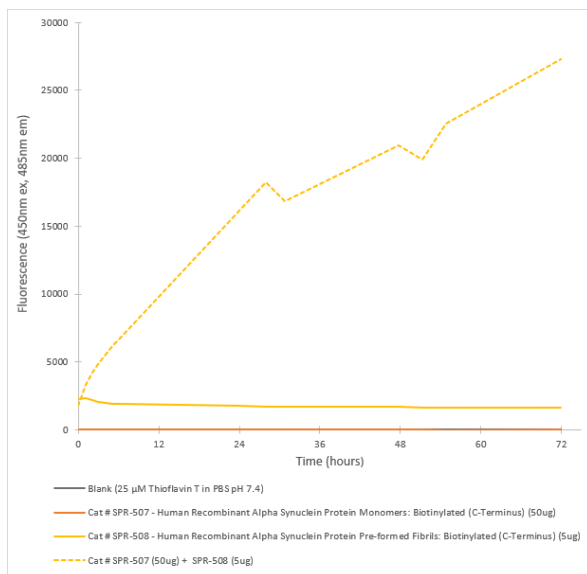
## Product Images



SDS-PAGE analysis of purified Alpha Synuclein Monomers: Biotinylated (C-Terminus) (SPR-507) on a 12% Bis-Tris gel.



Biotinylation assay on purified Alpha Synuclein Monomers: Biotinylated (C-Terminus). The assay is performed on 123uM of alpha synuclein monomers post-biotinylation (SPR-507), with 100uM of biotin as a positive control & ultrapure water as a negative control. Absorbance is measured at 500nm, and results are converted to % of biotinylation.



In vitro seeding activity of Alpha Synuclein Pre-formed Fibrils: Biotinylated (C-Terminus) in ThT assay. Alpha Synuclein Pre-formed Fibrils: Biotinylated (C-Terminus) (SPR-508) seed fibril formation of Alpha Synuclein Monomers: Biotinylated (C-Terminus) (SPR-507) over 72 hours. Reactions (100uL) shaken at 600 rpm in Greiner-Bio 96 Well Non-Binding Cell Culture Microplates, Black (Greiner-Bio Catalog #655900) at 37oC in the presence of 25 uM ThT and read with an XPS Microplate Reader set at 450nmex/485nmem.

## Product Citations

## Reviews

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There are no reviews yet.