

α -Synuclein Fibrils

Cat. No. CSR-SYN03-COS

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※ This product is manufactured under license from Takashi Nonaka, Ph.D. and Masato Hasegawa, Ph.D. of Department of Dementia and Higher Brain Function, Tokyo Metropolitan Institute of Medical Science.

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【 I 】 Introduction

Dementia is a disease that causes memory and judgement loss, there is no fundamental treatment developed for it. Years of scientific research has proven that protein aggregation occurs in the degeneration part of the brain for many neurodegenerative diseases including dementia, indicating appearance of this aggregation is closely related to these diseases development and progression.

Aggregation occurs when normal protein forms abnormal structure for particular reasons and accumulates in the cell, which each disease has different aggregating protein. It is known that protein called " α -Synuclein" forms abnormal structure in Parkinson Disease / Lewy Body Dementia / Multiple system atrophy patient brain.

【 II 】 Product Information

This product contains *in vitro* sonicated α - Synuclein Fibrils (Human, Recombinant, E.coli). It is confirmed maintaining seed activity in vitro.

Storage: Room Temperature

Description	Quantity	Purity	Suspending solvent
α -Synuclein Fibrils	0.1 mg (conc. 1 mg/mL)	$\geq 95\%$ (Determined by reverse-phase HPLC.)	Saline (0.1% NaN ₃)

* CAUTION: Prior to disposing F- α Syn, please autoclave (134 °C 20 min.), or add SDS (>3%) prior to autoclave (121 °C, 20min.). If above condition cannot be matched, please dispose accordingly to your local rules and regulations.

【 III 】 References

- [1] Conversion of wild-type alpha-synuclein into mutant-type fibrils and its propagation in the presence of A30P mutant. Yonetani M, Nonaka T, Masuda M, Inukai Y, Oikawa T, Hisanaga S, Hasegawa M. J Biol Chem. 2009 Mar 20;284(12):7940-50 (PMID: 19164293)
- [2] Seeded aggregation and toxicity of {alpha}-synuclein and tau: cellular models of neurodegenerative diseases. Nonaka T, Watanabe ST, Iwatsubo T, Hasegawa M. J Biol Chem. 2010 Nov 5;285(45):34885-98 (PMID: 20805224)
- [3] Prion-like spreading of pathological α -synuclein in brain. Masuda-Suzukake M, Nonaka T, Hosokawa M, Oikawa T, Arai T, Akiyama H, Mann DM, Hasegawa M. Brain. 2013 Apr;136(Pt 4):1128-38 (PMID: 23466394)

【IV】 Related products

Description	Cat. No.	Quantity
α -Synuclein Aggregation Assay Kit	CSR-SYN01-COS	1 kit (300 test)
Amyloid Fluorescent Staining Kit	CSR-SYN02-COS	1 kit

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