

α -Synuclein, Human, Recombinant, *E.coli*

Cat. No. CSR-SYN04-COS

【 I 】 Introduction

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In spite of bacterially expressed human alpha-synuclein (α -syn) has been widely used in structural and functional studies, approximately 20% of human α -syn expressed in *Escherichia coli* is mistranslated and that a Cys residue is incorporated at position 136 instead of a Tyr¹. This mutagenesis of codon resulted the levels of dimeric α -syn were increased by misincorporation¹.

To avoid these potential artefacts, this product is codon-optimized recombinant protein, and can be used as human α -syn under much similar condition to that of *in vivo*.

This product can also be used for a comparison (control) of α -Synuclein Fibrils (CSR-SYN03-COS).

【 II 】 Product Information

Description	Quantity	Concentration	Purity	Form
α -Synuclein	0.1 mg (100 μ g)	1 mg/mL	\geq 95% (Determined by reversed-phase HPLC)	Liquid (30 mM Tris-HCl buffer (pH 7.5))
	1 mg			

Storage condition: -20°C

【 III 】 Reference

1. FEBS Lett. 2006 Mar 20;580(7):1775-9. Cysteine misincorporation in bacterially expressed human alpha-synuclein. Masuda M, Dohmae N, Nonaka T, Oikawa T, Hisanaga S, Goedert M, Hasegawa M. PMID: 16513114

【 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
α -Synuclein Fibrils	CSR-SYN03-COS	0.1 mg



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