

## Product datasheet

# Recombinant Human Alpha-synuclein (deleted ) protein ab51186

### 画像数 1

#### 製品の概要

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製品名	Recombinant Human Alpha-synuclein (deleted ) protein
タンパク質長	Protein fragment

#### 製品の詳細

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由来	Recombinant
由来	Escherichia coli

#### アミノ酸配列

アクセッション番号 [NP\\_000336.1](#)

生物種 Human

配列 MDVFMKGLSK AKEGVVAAA E KTKQGVAEAA  
GKTKEGVLYV GSKTKEGVVH GVATVAEKTK  
GTEIWMKKDQ LGKNEEGAPQ EGILEDMPVD  
PDNEAYEMPS EEGYQDYEPE A

分子量 12 kDa

領域 61 to 95

#### 特性

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Our [Abpromise guarantee](#) covers the use of **ab51186** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション SDS-PAGE

精製度 > 95 % SDS-PAGE.

This protein fragment was overexpressed in *E. coli* and purified to apparent homogeneity by taking advantage of the thermosolubility of the protein and by using conventional column chromatography techniques.

製品の状態 Liquid

備考 A deletion mutant of alpha-synuclein that lacks the NAC region (amino acid 61-95).

#### 前処理および保存

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## 保存方法および安定性

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 0.1M Sodium chloride, 20mM Tris HCl, pH 7.5

## 関連情報

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### 機能

May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.

### 組織特異性

Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.

### 関連疾患

Genetic alterations of SNCA resulting in aberrant polymerization into fibrils, are associated with several neurodegenerative diseases (synucleinopathies). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimer disease amyloid plaque, and a major component of Lewy body inclusions. They are also found within Lewy body (LB)-like intraneuronal inclusions, glial inclusions and axonal spheroids in neurodegeneration with brain iron accumulation type 1.

Parkinson disease 1

Parkinson disease 4

Dementia Lewy body

### 配列類似性

Belongs to the synuclein family.

### ドメイン

The 'non A-beta component of Alzheimer disease amyloid plaque' domain (NAC domain) is involved in fibrils formation. The middle hydrophobic region forms the core of the filaments. The C-terminus may regulate aggregation and determine the diameter of the filaments.

### 翻訳後修飾

Phosphorylated, predominantly on serine residues. Phosphorylation by CK1 appears to occur on residues distinct from the residue phosphorylated by other kinases. Phosphorylation of Ser-129 is selective and extensive in synucleinopathy lesions. In vitro, phosphorylation at Ser-129 promoted insoluble fibril formation. Phosphorylated on Tyr-125 by a PTK2B-dependent pathway upon osmotic stress.

Hallmark lesions of neurodegenerative synucleinopathies contain alpha-synuclein that is modified by nitration of tyrosine residues and possibly by dityrosine cross-linking to generated stable oligomers.

Ubiquitinated. The predominant conjugate is the diubiquitinated form.

Acetylation at Met-1 seems to be important for proper folding and native oligomeric structure.

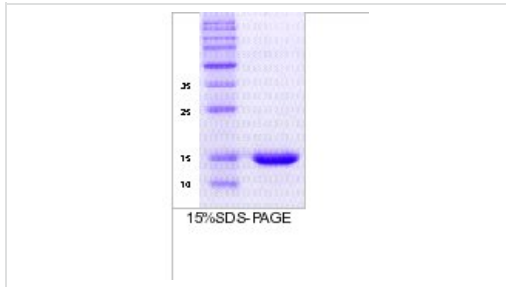
### 細胞内局在

Cytoplasm, cytosol. Membrane. Nucleus. Cell junction, synapse. Secreted. Membrane-bound in dopaminergic neurons.

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## 画像

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ab51186 in 15%SDS-PAGE

SDS-PAGE - alpha Synuclein protein (ab51186)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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