

# Recombinant Human Alpha-synuclein (mutated E46K) protein ab51188

**2 References**   **画像数 1**

### 製品の詳細

製品名	Recombinant Human Alpha-synuclein (mutated E46K) protein
精製度	> 95 % SDS-PAGE. Alpha Synuclein E46K was overexpressed in <i>E. coli</i> and purified to apparent homogeneity by using conventional column chromatography techniques.
発現系	Escherichia coli
アクセッション番号	<b>P37840</b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MDVFMKGLSK/ AKEGVVAAAE/ KTKQGVAAEA/ GKTKEGVLYV/ GSKTK[K]GVVH/GVATVAEKT/EQVTNVGGAV/VT GVTAVAQK/TVEGAGSIAA/ ATGFVKKDKL/GKNEEGAPQE/GILEDM PVDP/DNEAYEMPSE/EGYQDYEP
予測される分子量	14 kDa
領域	1 to 140
修飾	mutated E46K

### 特性

Our **Abpromise guarantee** covers the use of **ab51188** 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

製品の状態      Liquid

備考

Recent studies have shown that this mutant(E46K) of alpha-synuclein causes Parkinson and Lewy Body dementia(DLB).

## 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.

pH: 7.50

Constituents: 0.316% Tris HCl, 0.58% Sodium chloride

## 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.

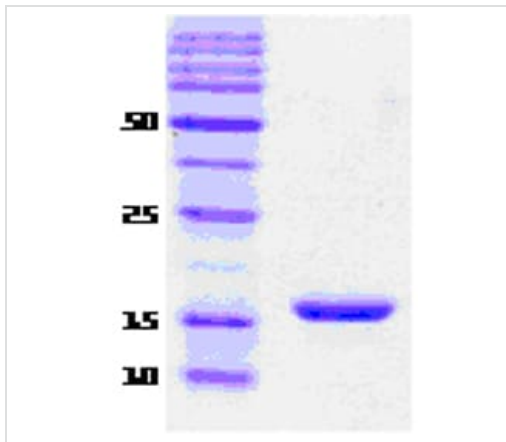
Acetylation at Met-1 seems to be important for proper folding and native oligomeric structure.

### 細胞内局在

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

## 画像

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ab51188 in 15%SDS-PAGE

SDS-PAGE - Recombinant Human Alpha-synuclein  
(mutated E46K) protein (ab51188)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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