

# Recombinant Human Alpha-synuclein/SNCA (K23Q) Protein

Catalog No.: RP00792 **Recombinant**

## Sequence Information

**Species** Human    **Gene ID** 6622    **Swiss Prot** P37840-1

**Tags**  
NO-tag

**Synonyms**  
SNCA; NACP; PARK1 Alpha-synuclein

## Background

Alpha-Synuclein (alpha-Syn), also known as NACP or SNCA, exists as at least two structural isoforms: one is helix-rich, membrane-bound form that both the N- and C-terminal regions of alpha-synuclein are tightly associated with membranes and the other is disordered, cytosolic form. Synuclein is found predominantly in the presynaptic termini, in both free or membrane-bound forms. SNCA is extensively localized in nucleus of neurons. It has been shown that alpha-Synuclein was highly expressed in the mitochondria in olfactory bulb, hippocampus, striatum, and thalamus, where the cytosolic alpha-Synuclein was also rich.

## Basic Information

### Description

Recombinant Human Alpha-synuclein/SNCA (K23Q) Protein is produced by *E. coli* Cells system. The target protein is expressed with sequence (Met1-Glu130) of Human Alpha-synuclein/SNCA (K23Q) fused with No tag .

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

### Source

*E. coli*    **Purification** ≥ 95% as determined by reducing SDS-PAGE.

### Calculated MW

13.27 kDa

### Observed MW

15-20 kDa

### Endotoxin

< 0.01 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

### Reconstitution

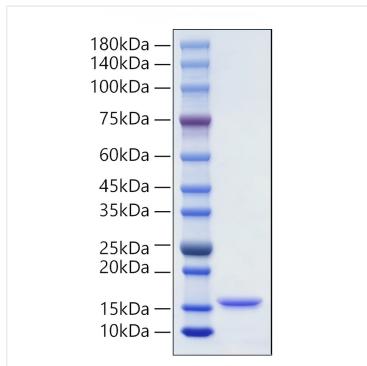
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Validation Data

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Recombinant Human Alpha-synuclein/SNCA (K23Q) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.