

## SNCG Protein, Human, Recombinant

### General Information

Synonyms:	PRSN;Gamma-Synuclein;SNCG;BCSG1;Breast Cancer-Specific Gene 1 Protein;PERSYN;γ-Synuclein;SR;Synoretin
Protein Construction:	Met1-Asp127
Species:	Human
Expression Host:	E. coli
Accession:	O76070
Molecular Weight:	16-18 KDa (reducing condition)
AA Sequence:	Met1-Asp127

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Gamma-Synuclein (SNCG) is a member of the Synuclein protein family. Gamma-Synuclein is mostly expressed in the peripheral nervous system and retina. Gamma-Synuclein plays a role in neurofilament network integrity and may be involved in modulating axonal architecture during development and in the adult. In addition, it may also function in modulating the keratin network in skin. SNCG expression in breast tumors has been as a marker for tumor progression. SNCG is also believed to be involved in the pathogenesis of neurodegenerative diseases.

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