

## Recombinant Human SNCG

Cat. No. SNCG-134H Lot. No. (See product label)

### SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Overview</b>    | Recombinant Human $\gamma$ -Synuclein produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The $\gamma$ -synuclein contains 127 amino acids and has a molecular mass of 13,300 Dalton. The $\gamma$ -synuclein is purified by using conventional column chromatography techniques. |
| <b>Species</b>             | Human   |
| <b>Source</b>              | E.coli  |
| <b>Description</b>         | The $\gamma$ -Synuclein (Originally known as a breast cancer specific gene product, BCSG1) is an acidic neuronal protein of 127 amino acids. The protein coding region of $\gamma$ -synuclein was amplified by RT-PCR and cloned into an E.coli expression vector.  |
| <b>Amino Acid Sequence</b> | MDVFKKGFSA AKEGVVGAVE KTKQGVTEAA EKTKEGVMYV GAKTKENVVQ<br>SVTSVAEKTK EQANAVSEAV VSSVNTVATK TVEEAENIAV TSGVVRKEDL<br>RPSAPQQEGV ASKEKEEVAE EAQSGGD.  |
| <b>Physical Appearance</b> | Sterile filtered colorless solution.  |
| <b>Formulation</b>         | The protein (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl and 1mM MgCl <sub>2</sub> .  |
| <b>Purity</b>              | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Coomassie.   |

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|                        |   |
|------------------------|---|
| <b>Stability</b>       | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  |
| <b>Protein Content</b> | Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.4 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of BMP-6 as a Reference Standard. |
| <b>Storage</b>         | Lyophilized BMP 6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Bone Morphogenetic Protein 6 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.  |

## GENE INFORMATION

|                       |  |
|-----------------------|--|
| <b>Gene Name</b>      | SNCG synuclein, gamma (breast cancer-specific protein 1) [ Homo sapiens ]  |
| <b>Synonyms</b>       | SNCG; synuclein, gamma (breast cancer-specific protein 1); SR; BCSG1; synoretin; Gamma-synuclein; Persyn; Breast cancer-specific gene 1 protein; PERSYN; PRSN; Synoretin; OTTHUMP00000020013; synuclein, gamma (breast cancer-specific gene 1); breast cancer-specific protein 1 |
| <b>Gene ID</b>        | 6623   |
| <b>mRNA Refseq</b>    | NM_003087  |
| <b>Protein Refseq</b> | NP_003078  |
| <b>MIM</b>            | 602998   |

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**UniProt ID** [O76070](#)

**Chromosome  
Location** 10q23.2-q23.3

**Function** protein binding

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