# SCG3 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | SCG3, Recombinant Protein |
| **Full Product Name** | Recombinant Human SCG3 protein (His tag) |
| **Product Gene Name** | SCG3 recombinant protein |
| **Product Synonym Names** | Secretogranin III; SgIII |
| **Sequence** | Phe20-Leu4 68 |
| **Host** | E coli |
| **Form/Format** | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Purity/Purification** | >90% as determined by reducing SDS-PAGE. |
| **Preparation and Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. |
| **Molecular Weight** | 26,909 Da |
| **OMIM** | 611796 |
| **3D Structure** | ModBase 3D Structure for Q8WXD2 |
| **Species** | Human |
| **Tag** | N-His & C-His |
| **Endotoxin** | <10EU/mg of the protein as determined by the LAL method. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis. |
| **Product Categories/Family for SCG3 recombinant protein** | Proteins; Recombinant Proteins; Others; Neuroscience; Metabolism |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SCG3 recombinant protein** | Member of the granin protein family that regulates the biogenesis of secretory granules.Acts as a sorting receptor for intragranular proteins including chromogranin A/CHGA.May also play a role in angiogenesis. Promotes endothelial proliferation, migration and tube formation through MEK/ERK signaling pathway. |
| **Other Notes** | Small volumes of SCG3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for SCG3 purchase** | MBS2580410 is a recombinant protein targeting SCG3. Also known as Recombinant Human SCG3 protein (His tag). Host: E coli. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCG3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 259089433 |
| **NCBI GeneID** | 29106 |

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| **NCBI Accession #** | NP_001158729.1 |
| **UniProt Primary Accession #** | Q8WXD2 |
| **UniProt Secondary Accession #** | Q96C83; Q96GE8; Q9Y6G7; A8K2B0; B3KQP6; B4DK99; F5H3R8 |
| **UniProt Related Accession #** | Q8WXD2 |
| **GenBank Nucleotide #** | NM_001165257.1 |
| **NCBI Official Full Name** | secretogranin-3 isoform 2 |
| **NCBI Official Synonym Full Names** | secretogranin III |
| **NCBI Official Symbol** | SCG3 |
| **NCBI Official Synonym Symbols** | SGIII |
| **UniProt Protein Name** | Secretogranin-3 |
| **UniProt Synonym Protein Names** | Secretogranin III; SgIII |
| **Protein Family** | Secretogranin |
| **UniProt Gene Name** | SCG3 |
| **UniProt Synonym Gene Names** | SgIII |
| **UniProt Entry Name** | SCG3_HUMAN |
| **NCBI Protein Information** | secretogranin-3 |
| **NCBI Summary for SCG3** | The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Granins may serve as precursors for biologically active peptides. Some granins have been shown to function as helper proteins in sorting and proteolytic processing of prohormones; however, the function of this protein is unknown. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009] |
| **UniProt Comments for SCG3** | SCG3: 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Secreted, signal peptide; Secreted<br><br>Chromosomal Location of Human Ortholog: 15q21<br><br>Cellular Component: extracellular region<br><br>Biological Process: platelet activation; platelet degranulation; blood coagulation |
| **Research Articles on SCG3** | **1.** HBXIP facilitates the proliferation of hepatoma cells by up-regulating SCG3 via E2F1 and miR-509-3p modulation. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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