Secretogranin III (SCG3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Secretogranin III (SCG3), Recombinant Protein
Full Product Name	Recombinant Human Secretogranin III
Product Gene Name	SCG3 recombinant protein
Product Synonym Names	SCG3 Human; Secretogranin III Human Recombinant; Secretogranin III; secretogranin-3; SGIII
Sequence	MGSSHHH HHH SSGLVPRGSH MGSFPK PGGS QDKSLHNREL SAERPLNEQI AEAEEDKIKK TYPPENKPGQ SNYSFVDNLN LLKAITEKEK IEKERQSIRS SPLDNKLNVE DVDSTKNRKL IDDYDSTKSG LDHKFQDDPD GLHQLDGTPL TAEDIVHKIA ARIYEENDRA VFDKIVSKLL NLGLITESQA HTLEDEVAEV LQKLISKEAN NYEEDPNKPT SWTENQAGKI PEKVTPMAAI QDGLAKGEND ETVSNTLTLT NGLERRTKTY SEDNFEELQY FPNFYALLKS IDSEKEAKEK ETLITIMKTL IDFVKMMVKY GTISPEEGVS YLENLDEMIA LQTKNKLEKN ATDNISKLFP APSEKSHEET DSTKEEAAKM EKEYGSLKDS TKDDNSNPGG KTDEPKGKTE AYLEAIRKNI EWLKKHDKKG NKEDYDLSKM RDFINKQADA YVEKGILDKE EAEAIKRIYS SL
Host	E Coli
Form/Format	The SCG3 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol. Sterile Filtered clear solution.
Purity/Purification	Greater than 85% as determined by SDS-PAGE.
Molecular Weight	26,909 Da
OMIM	611796
3D Structure	ModBase 3D Structure for Q8WXD2
Product Categories/Family for SCG3 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins
Related Product Information for SCG3 recombinant protein	**Description:** SCG3 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 472 amino acids (20-468) and having a molecular mass of 53.0kDa.SCG3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. **Introduction:** SCG3 belongs to the chromogranin/secretogranin family of neuroendocrine secretory proteins. Though, the function of SCG3 is unknown, Granins operate as precursors for biologically active peptides. Several granins are known to serve as helper proteins in sorting and proteolytic processing of prohormones.
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	MBS146030 is a recombinant protein targeting SCG3. Also known as Recombinant Human Secretogranin III. Host: E Coli.

ADDITIONAL DETAILS

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

NCBI GI #	259089433
NCBI GeneID	29106
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. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 15q21 Cellular Component: extracellular region 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.
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