Secreted Frizzled-Related Protein 4 (SFRP4) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Secreted frizzled-related protein 4 (Sfrp4), Recombinant Protein
Full Product Name	Recombinant Rat Secreted frizzled-related protein 4 (Sfrp4)
Product Gene Name	Sfrp4 recombinant protein
Product Synonym Gene Name	Sfrp4
Sequence	VRGAPCEAVR IPMCRHMPWN ITRMPNHLHH STQENAILAI EQYEELVDVN CSSVLRFFLC AMYAPICTLE FLHDPIKPCK SVCQRARDDC EPLMKMYNHS WPESLACDEL PVYDRGVCIS PEAIVTDLPE DVKWIDITPD MMVQERSFDA DCKHLSPDRC KCKKVKPTLA TYLSKNYSYV IHAKIKAVQR SGCNEVTTVV DVKEIFKSSS PIPRTQVPLI TNSSCQCPHI LPHQDVLIMC YERRSRMMLL ENCLVEKWRD QLSRRSTQWE ERLQEQQRTT QDKKQIASRT SRSNPPKPKG RSPASKPASP KKNIKARSAP KKSNPKKSTS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	39,762 Da
Sequence Positions	19-348, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9JLS4
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Sfrp4 recombinant protein	Secreted frizzled-related protein 4 (SFRP4) is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. SFRPs act as soluble modulators of Wnt signaling. The expression of SFRP4 in ventricular myocardium correlates with apoptosis related gene expression.
Other Notes	Small volumes of Sfrp4 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 Sfrp4 purchase	MBS1479061 is a recombinant protein targeting Sfrp4. Also known as Recombinant Rat Secreted frizzled-related protein 4 (Sfrp4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sfrp4. It may not necessarily be applicable to this product.

NCBI GI #	16758312
NCBI GeneID	89803
NCBI Accession #	NP_445996.1

UniProt Primary Accession #	Q9JLS4
UniProt Secondary Accession #	O35222; Q9JLS5
UniProt Related Accession #	Q9JLS4
GenBank Nucleotide #	NM_053544.1
NCBI Official Full Name	secreted frizzled-related protein 4
NCBI Official Synonym Full Names	secreted frizzled-related protein 4
NCBI Official Symbol	Sfrp4
UniProt Protein Name	Secreted frizzled-related protein 4
UniProt Synonym Protein Names	DDC-4 protein
Protein Family	Secreted frizzled-related protein
UniProt Gene Name	Sfrp4
UniProt Synonym Gene Names	Ddc4; Frp; sFRP-4
NCBI Protein Information	secreted frizzled-related protein 4
NCBI Summary for Sfrp4	Wnt binding protein involved in modulation of Wnt signaling [RGD, Feb 2006]
UniProt Comments for Sfrp4	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types (). SFRP4 plays a role in bone morphogenesis (). May also act as a regulator of adult uterine morphology and function (PubMed:12063187). May also increase apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling (PubMed:12960062). Has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake ().
Research Articles on Sfrp4	**1.** Increased SFRP4 down-regulated the key gene beta-catenin, the downstream effectors gene ccnd1 and fibronectin expression in canonical Wnt pathway at the same time.
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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