SPARC-Related Modular Calcium-Binding Protein 2 (SMOC2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	SPARC-related modular calcium-binding protein 2 (Smoc2), Recombinant Protein
Full Product Name	Recombinant Mouse SPARC-related modular calcium-binding protein 2 (Smoc2)
Product Gene Name	Smoc2 recombinant protein
Product Synonym Gene Name	Smoc2
Sequence	QKFSALTFLR VDQDKDRDCS LDCPSSPQKP LCASDGRTFL SRCEFQRAKC KDPQLEIAHR GNCKDVSRCV AERKYTQEQA RKEFQQVFIP ECNDDGTYSQ VQCHSYTGYC WCVTPNGRPI SGTAVAHKTP RCPGSINEKV PQREGAGKAD DAAAPALETQ PQGDEEDIAS RYPTLWTEQV KSRQNKTNKN SASSCDQEHQ SALEEAKQPK NDNVVIPECA HGGLYKPVQC HPSTGYCWCV LVDTGRPIPG TSTRYEQPKC DNTARAHPAK ARDLYKNRPL QGCPGAKKHE FLTSVLDALS TDMVHAVSDP SSSSGRLSEP DPSHTLEERV VHWYFKLLDK NSSGDIGKKE IKPFKRFLRK KSKPKKCVKK FVEYCDMNND KSITVQELMG CLGVTREEGK ANTRKRHTPR GNAESSSSNR QPRKQG
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	14,077 Da
Sequence Positions	22-447, 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 Q8CD91
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Smoc2 recombinant protein	This gene encodes a member of the SPARC family (secreted protein acidic and rich in cysteine osteonectin BM-40), which are highly expressed during embryogenesis and wound healing. The gene product is a matricellular protein which promotes matrix assembly and can stimulate endothelial cell proliferation and migration, as well as angiogenic activity. Associated with pulmonary function, this secretory gene product contains a Kazal domain, two thymoglobulin type-1 domains, and two EF-hand calcium-binding domains. The encoded protein may serve as a target for controlling angiogenesis in tumor growth and myocardial ischemia. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of Smoc2 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 Smoc2 purchase	MBS1423405 is a recombinant protein targeting Smoc2. Also known as Recombinant Mouse SPARC-related modular calcium-binding protein 2 (Smoc2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smoc2. It may not necessarily be applicable to this product.

NCBI GI #	160333760
NCBI GeneID	64074
NCBI Accession #	NP_071710.2
UniProt Primary Accession #	Q8CD91
UniProt Secondary Accession #	Q8VCM1; Q9D9K2; Q9ER95
UniProt Related Accession #	Q8CD91
GenBank Nucleotide #	NM_022315.2
NCBI Official Full Name	SPARC-related modular calcium-binding protein 2
NCBI Official Synonym Full Names	SPARC related modular calcium binding 2
NCBI Official Symbol	Smoc2
NCBI Official Synonym Symbols	Smoc2l; 1700056C05Rik; 5430426J21Rik
UniProt Protein Name	SPARC-related modular calcium-binding protein 2
UniProt Synonym Protein Names	Secreted modular calcium-binding protein 2; SMOC-2
Protein Family	SPARC-related modular calcium-binding protein
UniProt Gene Name	Smoc2
UniProt Synonym Gene Names	SMOC-2
NCBI Protein Information	SPARC-related modular calcium-binding protein 2
UniProt Comments for Smoc2	Can stimulate endothelial cell proliferation, migration, as well as angiogenesis (). Promotes matrix assembly and cell adhesiveness.
Research Articles on Smoc2	**1.** SMOC1 and SMOC2 may mediate intercellular signaling and cell type-specific differentiation during gonad and reproductive tract development
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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