Caveolin-2 (CAV2) Cat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Caveolin-2 (CAV2), Recombinant Protein
Full Product Name	Recombinant Cat Caveolin-2 (CAV2)
Product Gene Name	CAV2 recombinant protein
Sequence	MGLETEKADV QLFMDDDSYS RHSGVDYADP DKFADSGSDR DPHRLNSNLK VGFEDVIAEP VSTHSFDKVW ICSHALFEIS KYVIYKFLTL FLAIPLAFAA GILFATLSCL HIWIIMPFVK TCLMVLPSVQ TIWKSITDVV IAPLCTSVGR SFSSVSLQLS HD
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	18,065 Da
Sequence Positions	1-162, 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 A0M8S6
Species	Felis catus (Cat) (Felis silvestris catus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CAV2 recombinant protein	This protein is a major component of the inner surface of caveolae, small invaginations of the plasma membrane, and is involved in essential cellular functions, including signal transduction, lipid metabolism, cellular growth control and apoptosis. This protein may function as a tumor suppressor. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Two transcript variants encoding distinct isoforms have been identified for this gene. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by one transcript.
Other Notes	Small volumes of CAV2 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 CAV2 purchase	MBS958032 is a recombinant protein targeting CAV2. Also known as Recombinant Cat Caveolin-2 (CAV2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAV2. It may not necessarily be applicable to this product.

NCBI GI #	274315920
NCBI GeneID	493667
NCBI Accession #	NP_001162165.1

UniProt Primary Accession #	A0M8S6
UniProt Related Accession #	A0M8S6
GenBank Nucleotide #	NM_001168694.1
NCBI Official Full Name	caveolin-2
NCBI Official Symbol	CAV2
NCBI Official Synonym Symbols	Caveolin-2
UniProt Protein Name	Caveolin-2
Protein Family	Caveolin
UniProt Gene Name	CAV2
NCBI Protein Information	caveolin-2
UniProt Comments for CAV2	May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Acts as an accessory protein in conjunction with CAV1 in targeting to lipid rafts and driving caveolae formation. The Ser-36 phosphorylated form has a role in modulating mitosis in endothelial cells. Positive regulator of cellular mitogenesis of the MAPK signaling pathway. Required for the insulin-stimulated nuclear translocation and activation of MAPK1 and STAT3, and the subsequent regulation of cell cycle progression ().
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