Sulfatase-Modifying Factor 2 (SUMF2) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sulfatase-modifying factor 2 (SUMF2), Recombinant Protein
Full Product Name	Recombinant Bovine Sulfatase-modifying factor 2 (SUMF2)
Product Gene Name	SUMF2 recombinant protein
Product Synonym Gene Name	SUMF2
Sequence	QTVNMVQLPG GRFQMGTDSP DGRDGEGPVR EVTVKPFAID IFPVTNKDFR EFVREKKYRT EAEVFGWSFV FEDLVSDELR NKATQRMQSL LWWLPVERAF WRQPAGPGSG IREKLEFPVV HVSWNDARAY CAWRGKRLPT EEEWEFAARG GLKGQVYPWG NKFQPNRTNL WQGKFPKGDK AEDGFHGVSP VNAFPPQNDY GLYDLVGNVW EWTASQYQAA DQDMRVLRGA SWIDTADGSA NHRARVTTRM GNTPDSASDN LGFRCASGAG RPPGEL
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	33,829 Da
Sequence Positions	26-301, 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 Q58CP2
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SUMF2 recombinant protein	The catalytic sites of sulfatases are only active if they contain a unique amino acid, C-alpha-formylglycine (FGly). The FGly residue is posttranslationally generated from a cysteine by enzymes with FGly-generating activity. The gene described in this record is a member of the sulfatase-modifying factor family and encodes a protein with a DUF323 domain that localizes to the lumen of the endoplasmic reticulum. This protein has low levels of FGly-generating activity but can heterodimerize with another family member - a protein with high levels of FGly-generating activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Other Notes	Small volumes of SUMF2 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 SUMF2 purchase	MBS1450387 is a recombinant protein targeting SUMF2. Also known as Recombinant Bovine Sulfatase-modifying factor 2 (SUMF2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMF2. It may not necessarily be applicable to this product.

NCBI GI #	62460456

NCBI GeneID	509497
NCBI Accession #	NP_001014881.1
UniProt Primary Accession #	Q58CP2
UniProt Secondary Accession #	A6QPD0
UniProt Related Accession #	Q58CP2
GenBank Nucleotide #	NM_001014881.1
NCBI Official Full Name	sulfatase-modifying factor 2
NCBI Official Synonym Full Names	sulfatase modifying factor 2
NCBI Official Symbol	SUMF2
UniProt Protein Name	Sulfatase-modifying factor 2
UniProt Synonym Protein Names	C-alpha-formylglycine-generating enzyme 2
Protein Family	Sulfatase-modifying factor
UniProt Gene Name	SUMF2
NCBI Protein Information	sulfatase-modifying factor 2
UniProt Comments for SUMF2	Lacks formyl-glycine generating activity and is unable to convert newly synthesized inactive sulfatases to their active form. Inhibits the activation of sulfatases by SUMF1 ().
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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