Sphingomyelin Phosphodiesterase (SMPD1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sphingomyelin phosphodiesterase (SMPD1), Recombinant Protein
Full Product Name	Recombinant Bovine Sphingomyelin phosphodiesterase (SMPD1) , partial
Product Gene Name	SMPD1 recombinant protein
Product Synonym Gene Name	SMPD1
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	69,392 Da
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 Q0VD19
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SMPD1 recombinant protein	This protein is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Three transcript variants encoding two different isoforms have been found for this gene.
Other Notes	Small volumes of SMPD1 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 SMPD1 purchase	MBS1370645 is a recombinant protein targeting SMPD1. Also known as Recombinant Bovine Sphingomyelin phosphodiesterase (SMPD1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMPD1. It may not necessarily be applicable to this product.

NCBI GI #	115496992
NCBI GeneID	505097
NCBI Accession #	NP_001068655.1
UniProt Primary Accession #	Q0VD19
UniProt Related Accession #	Q0VD19
GenBank Nucleotide #	NM_001075187.1

NCBI Official Full Name	sphingomyelin phosphodiesterase
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 1
NCBI Official Symbol	SMPD1
UniProt Protein Name	Sphingomyelin phosphodiesterase
UniProt Synonym Protein Names	Acid sphingomyelinase; aSMase
Protein Family	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD1
UniProt Synonym Gene Names	aSMase
NCBI Protein Information	sphingomyelin phosphodiesterase
UniProt Comments for SMPD1	Converts sphingomyelin to ceramide. Also has phospholipase C activities toward 1,2-diacylglycerolphosphocholine and 1,2-diacylglycerolphosphoglycerol.
Research Articles on SMPD1	**1.** Acid sphingomyelinase activation serves as a triggering mechanism, leading to fusion of membrane proximal lysosomes into lipid rafts clusters on the cell membrane of coronary arterial endothelial cells.
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