SAM Domain and Hd Domain-Containing Protein 1 (SAMHD1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	SAM domain and HD domain-containing protein 1 (Samhd1), Recombinant Protein
Full Product Name	Recombinant Mouse SAM domain and HD domain-containing protein 1 (Samhd1)
Product Gene Name	Samhd1 recombinant protein
Product Synonym Gene Name	Samhd1
Sequence	MQSAPLEQPA KRPRCDGSPR TPPSTPPATA NLSADDDFQN TDLRTWEPED VCSFLENRGF REKKVLDIFR DNKIAGSFLP FLDEDRLEDL GVSSLEERKK MIECIQQLSQ SRIDLMKVFN DPIHGHIEFH PLLIRIIDTP QFQRLRYIKQ LGGGYYVFPG ASHNRFEHSL GVGYLAGCLV RALAEKQPEL QISERDILCV QIAGLCHDLG HGPFSHMFDG RFIPRARPEK KWKHEQGSIE MFEHLVNSNE LKLVMKNYGL VPEEDITFIK EQIMGPPITP VKDSLWPYKG RPATKSFLYE IVSNKRNGID VDKWDYFARD CHHLGIQNNF DYKRFIKFAR ICEVEYKVKE DKTYIRKVKH ICSREKEVGN LYDMFHTRNC LHRRAYQHKI SNLIDIMITD AFLKADPYVE ITGTAGKKFR ISTAIDDMEA FTKLTDNIFL EVLHSTDPQL SEAQSILRNI ECRNLYKYLG ETQPKREKIR KEEYERLPQE VAKAKPEKAP DVELKAEDFI VDVINVDYGM EDKNPIDRVH FYCKSNSKQA VRINKEQVSQ LLPEKFAEQL IRVYCKKKDG KSLDAAGKHF VQWCALRDFT KPQDGDIIAP LITPLKWNNK TSSCLQEVSK VKTCLKF
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	72,650 Da
Sequence Positions	1-627, 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 Q60710
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Samhd1 recombinant protein	MBS1337254 is a recombinant protein targeting Samhd1. Also known as Recombinant Mouse SAM domain and HD domain-containing protein 1 (Samhd1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Samhd1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Samhd1. It may not necessarily be applicable to this product.

NCBI GI #	213418079
NCBI GeneID	56045

NCBI Accession #	NP_001132992.1
UniProt Primary Accession #	Q60710
UniProt Secondary Accession #	Q3U5X2; Q543A4; Q91VK8
UniProt Related Accession #	Q60710
GenBank Nucleotide #	NM_001139520.1
NCBI Official Full Name	deoxynucleoside triphosphate triphosphohydrolase SAMHD1 isoform 2
NCBI Official Synonym Full Names	SAM domain and HD domain, 1
NCBI Official Symbol	Samhd1
NCBI Official Synonym Symbols	Mg11; E330031J07Rik
UniProt Protein Name	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Synonym Protein Names	Interferon-gamma-inducible protein Mg11; SAM domain and HD domain-containing protein 1
Protein Family	Deoxynucleoside triphosphate triphosphohydrolase
UniProt Gene Name	Samhd1
UniProt Synonym Gene Names	Mg11; dNTPase
NCBI Protein Information	deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Comments for Samhd1	Host restriction nuclease involved in defense response to virus. Has dNTPase activity and reduces cellular dNTP levels to levels too low for retroviral reverse transcription to occur. Blocks early-stage virus replication in dendritic and other myeloid cells. Likewise, suppresses LINE-1 retrotransposon activity. May play a role in mediating proinflammatory responses to TNF-alpha signaling. Has ribonuclease activity, acting on single-stranded RNA.
Research Articles on Samhd1	**1.** provide genetic evidence that cell-autonomous control of lentivirus infection in myeloid cells by SAMHD1 limits virus-induced production of interferons and the induction of co-stimulatory markers
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