Annexin A1 (ANXA1) Horse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Annexin A1 (ANXA1), Recombinant Protein
Full Product Name	Recombinant Horse Annexin A1 (ANXA1)
Product Gene Name	ANXA1 recombinant protein
Product Synonym Gene Name	ANXA1
Sequence	SMVSAFLKQA WFIENEEQEY IKAVKGSKGG PGSAVSPYPS FNPSSDVDAL HKAITVKGVD EATIIEILTK RNNAQRQQIK AAYLQEKGKP LDEALKKALT GHLEDVALAL LKTPARFDAD ELRAAMKGLG TDEDTLIEIL TSRTNKEIRE INRVYREELK RDLAKDITSD TSGDFQKALL SLAKGDRSED FGVNDDLADS DARALYEAGE RRKGTDVNVF NTILTTRSYP HLRRVFQMYT KYSKHDMNKV LDLEMKGDVE NCFTAIVKCA TSKPMFFAEK LHNAMKGAGT RDKILIRIMV SRSEVDMNDI KACYQKLYGI SLCQAILDET KGDYEKILVA LCGRD
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	38,737 Da
Sequence Positions	2-346, 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 Q8HZM6
Species	Equus caballus (Horse)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ANXA1 recombinant protein	Annexin I belongs to a family of Ca(2+)-dependent phospholipid binding proteins which have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. Annexin I protein has an apparent relative molecular mass of 40 kDa, with phospholipase A2 inhibitory activity. Since phospholipase A2 is required for the biosynthesis of the potent mediators of inflammation, prostaglandins and leukotrienes, annexin I may have potential anti-inflammatory activity.
Other Notes	Small volumes of ANXA1 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 ANXA1 purchase	MBS1346876 is a recombinant protein targeting ANXA1. Also known as Recombinant Horse Annexin A1 (ANXA1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANXA1. It may not necessarily be applicable to this product.

NCBI GI #	126352349

NCBI GeneID	100033940
NCBI Accession #	NP_001075336.1
UniProt Primary Accession #	Q8HZM6
UniProt Related Accession #	Q8HZM6
GenBank Nucleotide #	NM_001081867.2
NCBI Official Full Name	annexin A1
NCBI Official Symbol	ANXA1
UniProt Protein Name	Annexin A1
UniProt Synonym Protein Names	Annexin I; Annexin-1; Calpactin II; Calpactin-2; Lipocortin I
Protein Family	Annexin
UniProt Gene Name	ANXA1
UniProt Synonym Gene Names	ANX1
NCBI Protein Information	annexin A1
UniProt Comments for ANXA1	Plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. Has anti-inflammatory activity. Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response. Promotes resolution of inflammation and wound healing (). Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades. Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors (). Contributes to the adaptive immune response by enhancing signaling cascades that are triggered by T-cell activation, regulates differentiation and proliferation of activated T-cells. Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells (). Has no effect on unstimulated T-cells. Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration. Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton (). Has high affinity for Ca2+ and can bind up to eight Ca2+ ions (). Displays Ca2+-dependent binding to phospholipid membranes (). Plays a role in the formation of phagocytic cups and phagosomes. Plays a role in phagocytosis by mediating the Ca2+-dependent interaction between phagosomes and the actin cytoskeleton ().
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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