ANXA5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ANXA5, Recombinant Protein
Full Product Name	Recombinant Human ANXA5 Protein, N-His
Product Gene Name	ANXA5 recombinant protein
Product Synonym Names	Endonexin II; ENX2; Placental anticoagulant protein 4; PP4; CBP-I; ANXA5; Anchorin CII; PAP-I; Thromboplastin inhibitor; Vascular anticoagulant-alpha; VAC-alpha; Calphobindin I; ANX5; Placental anticoagulant protein I; Annexin V; Annexin-5; Lipocortin V; Annexin A5
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	35,937 Da
Sequence Positions	Ala2-Asp320
OMIM	131230
3D Structure	ModBase 3D Structure for P08758
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for ANXA5 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ANXA5 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for ANXA5 recombinant protein	MBS1579268 is a recombinant protein targeting ANXA5. Also known as Recombinant Human ANXA5 Protein, N-His. Host: E coli.
Other Notes	Small volumes of ANXA5 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 ANXA5. It may not necessarily be applicable to this product.

NCBI GI #	4502107
NCBI GeneID	308
NCBI Accession #	NP_001145.1
UniProt Primary Accession #	P08758
UniProt Secondary Accession #	Q6FHB3; Q6FI16; Q8WV69; Q9UDH9; D3DNW7

UniProt Related Accession #	P08758
GenBank Nucleotide #	NM_001154.3
NCBI Official Full Name	annexin A5
NCBI Official Synonym Full Names	annexin A5
NCBI Official Symbol	ANXA5
NCBI Official Synonym Symbols	PP4; ANX5; ENX2; RPRGL3; HEL-S-7
UniProt Protein Name	Annexin A5
UniProt Synonym Protein Names	Anchorin CII; Annexin V; Annexin-5; Calphobindin I; CBP-I; Endonexin II; Lipocortin V; Placental anticoagulant protein 4; PP4; Placental anticoagulant protein I; PAP-I; Thromboplastin inhibitor; Vascular anticoagulant-alpha
Protein Family	Annexin
UniProt Gene Name	ANXA5
UniProt Synonym Gene Names	ANX5; ENX2; PP4; CBP-I; PP4; PAP-I; VAC-alpha
UniProt Entry Name	ANXA5_HUMAN
NCBI Protein Information	annexin A5; CBP-I; PAP-I; VAC-alpha; annexin V; annexin-5; anchorin CII; endonexin II; lipocortin V; calphobindin I; thromboplastin inhibitor; vascular anticoagulant-alpha; epididymis secretory protein Li 7; placental anticoagulant protein 4; placental an
NCBI Summary for ANXA5	The protein encoded by this gene belongs to the annexin family of calcium-dependent phospholipid binding proteins some of which have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. Annexin 5 has also been described as placental anticoagulant protein I, vascular anticoagulant-alpha, endonexin II, lipocortin V, placental protein 4 and anchorin CII. The gene spans 29 kb containing 13 exons, and encodes a single transcript of approximately 1.6 kb and a protein product with a molecular weight of about 35 kDa. [provided by RefSeq, Jul 2008]
UniProt Comments for ANXA5	ANXA5: a calcium/phospholipid-binding protein and an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade. The binding of labeled ANXA5 to phosphatidylserine is used as a marker of apoptosis. Annexins are a family of structurally related proteins whose common property is calcium-dependent binding to phospholipids. There are at least ten different annexins in mammalian species. Annexins do not contain signal peptides, yet some annexins (A1, A2 and A5) appear to be secreted in a physiologically regulated fashion. Protein type: Calcium-binding; Inhibitor; Lipid-binding; Apoptosis Chromosomal Location of Human Ortholog: 4q27 Cellular Component: focal adhesion; membrane; cytoplasm; intracellular; external side of plasma membrane Molecular Function: phospholipase inhibitor activity; calcium-dependent phospholipid binding; phospholipid binding; calcium ion binding Biological Process: response to organic substance; negative regulation of catalytic activity; negative regulation of coagulation; blood coagulation; signal transduction; negative regulation of apoptosis Disease: Pregnancy Loss, Recurrent, Susceptibility To, 3
Research Articles on ANXA5	**1.** This review describes the structure, function and genetic expression of ANXA5, as well as its possible implication in recurrent pregnancy loss.
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