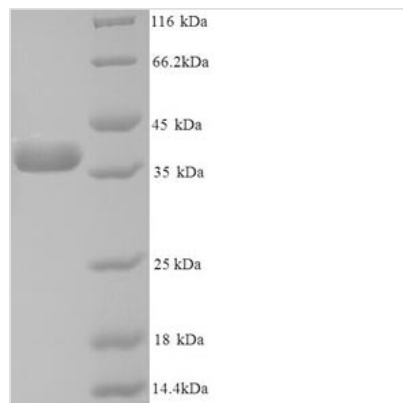




Recombinant Human Annexin A5 (ANXA5)

Product Code	CSB-YP001846HU
Relevance	This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.
Abbreviation	Recombinant Human ANXA5 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P08758
Alias	Anchorin CII;Annexin V;Annexin-5;Calphobindin I ;CBP-IEndonexin II;Lipocortin V;Placental anticoagulant protein 4 ;PP4Placental anticoagulant protein I ;PAP-I;Thromboplastin inhibitor;Vascular anticoagulant-alpha ;VAC-alpha
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEIS AAFKTLFGRDLLDDLKSELTGKFEKLIVALMKPSRLYDAYELKHALKGAGTNEK VLTEIIASRTPEELRAIKQVYEEYEGSSLEDDVVGDTSGYYQRMLVVLLQANRD PDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDDKYMTI SGFQIEETIDRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRV MVSRSIDLFNIRKEFRKNFATSLYSMIKGDTS GDYKKALLLLCGEDD
Research Area	Cardiovascular
Source	Yeast
Target Names	ANXA5
Protein Names	Recommended name: Annexin A5 Alternative name(s): Anchorin CII Annexin V Annexin-5 Calphobindin I Short name= CBP-I Endonexin II Lipocortin V Placental anticoagulant protein 4 Short name= PP4 Placental ant
Expression Region	2-320aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	37.8kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human ANXA5 was expressed with the amino acid range of 2-320. The theoretical molecular weight of the ANXA5 protein is 37.8 kDa. This protein is generated in a yeast-based system. The ANXA5 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant ANXA5 protein during the following stages.

The human Annexin A5 (ANXA5) is a cellular protein belonging to the annexin family, known for its calcium-dependent phospholipid-binding properties. ANXA5 plays a role in several cellular processes, including membrane trafficking, vesicle formation, and apoptosis regulation. ANXA5 has a unique ability to bind to phospholipids in a calcium-dependent manner, which can influence membrane structure and function. Additionally, ANXA5 has anti-coagulant properties and is used in clinical settings as a marker for apoptosis due to its ability to bind to phosphatidylserine exposed on the outer leaflet of apoptotic cell membranes. Research on ANXA5 extends to its involvement in various physiological and pathological processes, including blood clotting, immune response, and cancer.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.