

# Recombinant human Annexin A5/ANXA5 protein

Catalog Number: ATGP0406

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-320aa

### UniProt No.

P08758

### NCBI Accession No.

NP\_001145.1

### Alternative Names

Vascular anticoagulant-alpha, VAC-alpha, Thromboplastin inhibitor, PP4, Placental anticoagulant protein I, PAP I, Lipocortin V, ENX2, Endonexin II, CPB-I, Calphobindin I, ANX5, ANX A5, Annexin V, Annexin A5, Annexin 5, Anchorin CII

## PRODUCT SPECIFICATION

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### Molecular Weight

35.9 kDa (320aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Annexin A5, also known as Annexin V, 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 A5 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. This protein is an

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anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade. Recombinant Annexin A5 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MAQVLRGTVT DFPGFDERAD AETLRKAMKG LGTDEESILT LLTSRSNAQR QEISAAFKTL FGRDLLDDLK SELTGKFEKL  
IVALMKPSRL YDAYELKHAL KGAGTNEKVL TEIIASRTPE ELRAIKQVYE EEYGSSLEDD VVGDTSGYYQ RMLVVLLQAN  
RDPDAGIDEA QVEQDAQALF QAGELKWGTD EEKFITIFGT RSVSHLRKVF DKYMTISGFQ IEETIDRETS GNLEQLLAV  
VKSIRSIPAY LAETLYYAMK GAGTDDHTLI RVMVSRSEID LFNIRKEFRK NFATSLYSMI KGDTSGDYKK ALLLLCGEDD

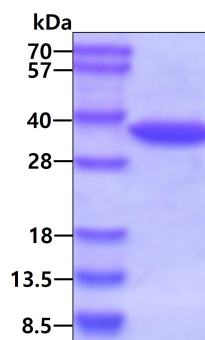
## General References

Frey B., et al. (2009) *J Immunotoxicol.* 6(4):209-16.

Steele AJ., et al. (2009) *Blood.* 114(6):1217-25.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.