

Recombinant mouse Annexin A5/ANXA5 protein

Catalog Number: ATGP3060

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-319aa

UniProt No.

P48036

NCBI Accession No.

NP_033803.1

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

Molecular Weight

38.1 kDa (342aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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

Description

Anxa5 also known as Annexin A5. Annexin A5, 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. Anxa5 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

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is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade. Recombinant mouse Anxa5, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MATRGTV TDFPGFDGRA DAEVLRKAMK GLGTDEDSIL NLLTSRSNAQ
RQEIAQEFKT LFGRDLVDDL KSELTGKFEK LIVAMMKPSR LYDAYELKHA LKGAGTDEKV LTEIIASRTP EELSAIKQVY
EEEYGSNLED DVVGDTSGYY QRMLVVLLQA NRDPTAIDD AQVELDAQAL FQAGELKWGT DEEKFITIFG TRSVSHLRRV
FDKYMTISGF QIEETIDRET SGNLEQLLLA VVKSIRSIPA YLAETLYYAM KGAGTDDHTL IRVVVSRSEI DLFNIRKEFR
KNFATSLYSM IKGDTSGDYK KALLLLCGGE DD

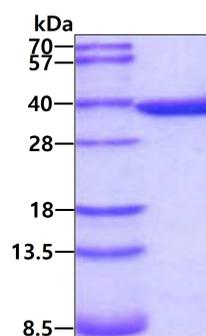
General References

Jeong JJ., et al. (2014) *J. Biol. Chem.* 289 (4), 2469-2481

Liu BC., et al. (2013) *Am. J. Physiol. Renal Physiol.* 305 (3), F304-F313

DATA

SDS-PAGE



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