

Recombinant human Annexin A7/ANXA7 protein

Catalog Number: ATGP1407

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-466aa

UniProt No.

P20073

NCBI Accession No.

NP_001147

Alternative Names

Annexin A7, ANX7, SNX, SYNEXIN

PRODUCT SPECIFICATION

Molecular Weight

52.9 kDa (490aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM MES buffer (pH 5.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Purity

> 85% 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

ANXA7, also known as annexin A7, is a member of the annexin family of calcium-dependent phospholipid binding proteins. The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. Structural analysis of the protein suggests that Annexin A7 is a membrane binding protein with diverse properties including voltage sensitive calcium channel activity, ion selectivity and membrane fusion. Recombinant human ANXA7 protein, fused to His-tag at N-terminus, was

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expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

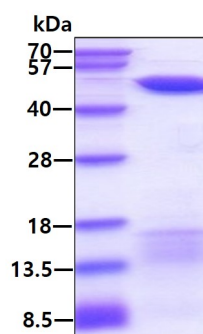
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PGGQMP SQYP GGQPTYP SQP ATVTQVTQGT IRPAANFDAI RDAEILRKAM KGFGTDEQAI VDVVANRSND QRQKIAAFK
TSYGKDLIKD LKSELSGNME ELILALFMPP TYYDAWSLRK AMQGAGTQER VLIEILCTRTRT NQEIREIVRC YQSEFGRDLE
KDIRSDTSGH FERLLVSMCQ GNRDENQSIN HQMAQEDAQR LYQAGEGRLG TDESCFNMIL ATRSFPLRA TMEAYSRMAN
RDLLSSVSRE FSGYVESGLK TILQCALNRP AFFAERLYYA MKGAGTDDST LVRIVTRSE IDLVQIKQMF AQMYQKTLGT
MIAGDTSGDY RRLLLAIVGQ

General References

Shirvan A., et al. (1994) *Biochemistry*. 33:6888-6901
Shibata H., et al. (2008) *J. Biol. Chem.* 283:9623-9632

DATA

SDS-PAGE



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