

## Recombinant Human Annexin A7 (ANXA7)

### ORDERING INFORMATION

Catalog Number	Size
13822P-5	5ug
13822P-20	20ug
13822P-1000	1000ug

**Formulation:** Sterile-filtered clear solution (0.25mg/ml) in 20mM Tris-HCl, pH 8.0, 150mM NaCl, 1mM DTT, 40% glycerol. Purified by proprietary chromatographic techniques.

### BACKGROUND

Annexin 7 is a member of the annexin family of calcium-dependent phospholipids binding proteins. It includes a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter is composed of alternating hydrophobic and hydrophilic segments. Analysis of this protein suggests that Annexin 7 is a membrane binding protein with diverse properties including voltage-sensitive calcium channel activity, ion selectivity, and membrane fusion.

### DESCRIPTION

Recombinant Human Annexin A7 produced in *E. coli* is a single, non-glycosylated polypeptide containing amino acids 1-466 with a molecular weight of 52.9kDa. It includes a 24 amino acid His-tag at the N-terminus.

### SPECIFICATION SUMMARY

**Source:** *Escherichia coli*

**Purity:** Greater than 85% as determined by SDS-PAGE.

**Accession number:** P20073.3

**Amino acid sequence:**

MGSSHHHHHH SGLVPRGSH  
 MGSMSYPGY PPTGYPPFPG YPPAGQESSF  
 PPSGQYPYPS GFPPMGGGAY PQVPSSGYPG  
 AGGYAPGGY PAPGGYPGAP QPGGAPSYPG  
 VPPGQGFVPG PGGAGFSGY QPPSQSYGGG  
 PAQVPLPGGF PGGQMPSQYP GGQPTYPSQP  
 ATVTQVTQGT IRPAANFDAI RDAEILRKAM  
 KGFGTDEQAI VDVVANRSND QRQKIKAAFK  
 TSYGKDLIKD LKSELSGNME ELILALFMPP  
 TTYDAWLSLRK AMQGAGTQER VLIEILCTRT  
 NQEIREIVRC YQSEFGRDLE KDIRSDTSGH  
 FERLLVSMCQ GNRDENQSIN HQMAQEDAQR  
 LYQAGEGRLG TDESCFNMIL ATRSFQQLRA  
 TMEAYSRMAN RDLLSSVSRE FSGYVESGLK  
 TILQCALNRP AFFAERLYYA MKGAGTDDST  
 LVRIVVTRSE IDLVQIKQMF AQMYQKTLGT  
 MIAGDTSGDY RRLLLAIVGQ

### STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at -20°C for longer periods of time. For long-term storage, addition of 0.1% human serum albumin or bovine serum albumin is recommended. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*