



# Recombinant Human Annexin A7 (ANXA7)

<b>Product Code</b>	CSB-EP001848HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P20073
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>MSYPGYPTG YPPFPGYPPA GQESSFPPSG QYPYPSGFPP          MGGGAYPQVP SSGYPGAGGY PAPGGYPAPG GYPGAPQPGG          APSYPGVPPG QGFGVPPGGA GFSGYPPPS QSYGGGPAQV          PLPGGFPGGQ MPSQYPGGQP TYPQINTDS FSSYPVFSPV SLDYSSEPAT          VTQVTQGTIR PAANFDAIRD AEILRKAMKG FGTDEQAIVD VVANRSNDQR          QKIKAAFKTS YGKDLIKDLK SELSGNMEEL ILALFMPPTY YDAWSLRKAM          QGAGTQERVL IEILCTRTRNQ EIREIVRCYQ SEFGRDLEKD IRSDTSGHFE          RLLVSMCQGN RDEMQSINHQ MAQEDAQRLY QAGEGRLGTD ESCFNMILAT          RSFPQLRATM EAYSRMANRD LLSSVSREFS GYVESGLKTI LQCALNRPAF          FAERLYYAMK GAGTDDSTLV RIVVTRSEID LVQIKQMFAQ MYQKTLGTM          AGDTSGDYRR LLLAIVGQ</p>
<b>Source</b>	E.coli
<b>Target Names</b>	ANXA7
<b>Protein Names</b>	Recommended name: Annexin A7 Alternative name(s): Annexin VII Annexin-7 Synexin
<b>Expression Region</b>	1-488
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	<p>Annexin VII 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. The alternative splicing event is tissue specific and the mRNA containing the cassette exon is prevalent in brain, heart and skeletal muscle. The transcripts also differ in their 3'-non coding regions by the use of two alternative poly(A) signals. Annexin VII encodes a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the protein suggests that Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion</p>



selectivity and membrane fusion.

---

**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.