

Recombinant Human ANXA7 Protein, N-His-tagged

Cat. No. ANXA7-005H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ANXA7 protein with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	488
Description	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 selectivity and membrane fusion.
Form	Solution

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Molecular Mass	52.9 kDa
AA Sequence	MSYPGYPTGYPPFPGYPPAGQESSFPPSGQYPYPSGFPPMGGGAYPQVPSSGY PGAGGYAPGGYPAPGGYPGAPQPGGAPSYPGVPPGQGFGVPPGGAGFSGY PQ PPSQSYGGGPAQVPLPGGFPGGQMPSQYPGGQPTYPSQINTDSFSSYPVFSPVSL DYSSEPATVTQVTQGTIRPAANFDAIRDAEILRKAMKGFDTDEQAIVDVVANRSNDQ RQKIKAAFKTSYGKDLIKDLKSELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQ ERVLIEILCTR TNQEIREIVRCYQSEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDEN QSINHQMAQEDAQRLYQAGEGRLGTDESCFN MILATRSFPQLRATMEAYS RMANR DLLSSVSREFSGYVESGLKTILQCALNRPAFFAERLYYAMKGAGTDDSTLVRIVVTRS EIDL VQIKQMFAQMYQKTLGTMIAGDTSGDYRRLLLAIVGQ
Purity	> 85%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	4°C
Concentration	25 mg/mL
Storage Buffer	Tris-HCl (pH 8). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	ANXA7 annexin A7 [Homo sapiens (human)]
Official Symbol	ANXA7
Synonyms	ANXA7; annexin A7; ANX7; annexin-7; annexin VII; SNX; SYNEXIN;
Gene ID	310
mRNA Refseq	NM_001156
Protein Refseq	NP_001147
MIM	186360
UniProt ID	P20073

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