

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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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	52.9 kDa
AA Sequence	<p>MSYPGYPTGYPPFPGYPPAGQESSFPPSGQYPYPSGFPPMGGGAYPQVPSSGY PGAGGYAPGGYPAPGGYPGAPQPGGAPSYPGVPPGQGFVPPGGAGFSGYPO PPSQSYGGGPAQVPLPGGFPGGQMPSQYPGGQPTYPSQINTDSFSSYPVFSVSL DYSSEPATVTQVTQGTIRPAANFDAIRDAEILRKAMKGFDTDEQAIVDVVANRSNDQ RQKIKAAFKTSYGKDLIKDLKSELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQ ERVLIEILCTRNTQEIREEIVRCYQSEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDN QSINHQMAQEDAQRLYQAGEGRLGTDESCFNMILATRSFPQLRATMEAYSRRMANR DLLSSVSREFSGYVESGLKTLQCALNRPAFFAERLYYAMKGAGTDDSTLVRIVVTRS EIDLVIKQMFQAQMYQKTLGTMIAGDTSGDYRRLLLAIVGQ</p>
Purity	> 85%
Applications	WB; ELISA; FACS; FC
Stability	<p>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.</p>
Storage	4°C
Concentration	25 mg/mL
Storage Buffer	Tris-HCl (pH 8). Sterile-filtered colorless solution.
Reconstitution	<p>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.</p>

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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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