

Recombinant Human ANXA7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ANXA7-2023H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ANXA7 MS Standard C13 and N15-labeled recombinant protein (NP_004025) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	52.6 kDa

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AA Sequence	MSYPGYPPTGYPPFPGYPPAGQESSFPPSGQYPYPSGFPPMGGGAYPQVPSSGY PGAGGYAPGGYPAPGGYPGAPQPGGAPSYPGVPPGQGFGVPPGGAGFSGY PQ PPSQSYGGGPAQVPLPGGFPGGQMPSQYPGGQPTYPSQINTDSFSSYPVFSPVSL DYSSEPATVTQVTQGTIRPAANFDAIRDAEILRKAMKGFDTDEQAIVDVVANRSNDQ RQKIKAAFKTSYGKDLIKDLKSELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQ ERVLIEILCTRTNQEIREIVRCYQSEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDN QSIHQMAQEDAQRLYQAGEGRLGTDESCFNMILATRSFPQLRATMEAYSRMANR DLLSSVSREFSGYVESGLKTLQCALNRPAFFAERLYYAMKGAGTDDSTLVRIVTRS EIDLVIKQMFQMYQKTLGTMIAGDTSGDYRRLLAIVGQTRTRPLEQKLISEEDLA ANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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

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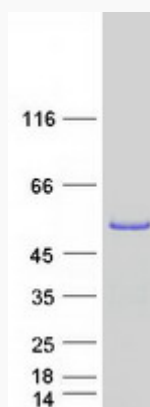
mRNA Refseq NM_004034

Protein Refseq NP_004025

MIM 186360

UniProt ID P20073

SDS-PAGE



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