

## 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  
 PGAGGYPAPGGYPAPGGYPGAPQPGGAPSYPGVPPGQGFGVPPGGAGFSGYPPQ  
 PPSQSYGGGPAQVPLPGGFPGGQMPSQYPGGQPTYPSQINTDSFSSYPVFSPVSL  
 DYSSEPATVTQVTQGTIRPAANFDAIRDAEILRKAMKGFGTDEQAIVDVVANRSNDQ  
 RQKIKAAFKTSYGKDLIKDLKSELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQ  
 ERVLIEILCTR TNQEIREIVRCYQSEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDN  
 QSINHQMAQEDAQRLYQAGEGRLGTDESCFNMILATRSFPQLRATMEAYSRMANR  
 DLLSSVSREFSGYVESGLKILQCALNRPAFFAERLYYAMKGAGTDDSTLVIRIVTRS  
 EIDLVIKQMFQMYQKTLGTMIAGDTSGDYRRLLLAIVGQTRTRPLEQKLISEEDLA  
 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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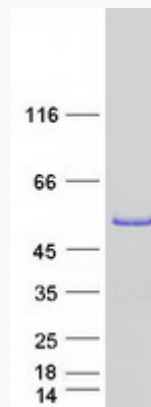
mRNA Refseq [NM\\_004034](#)

Protein Refseq [NP\\_004025](#)

MIM [186360](#)

UniProt ID [P20073](#)

SDS-PAGE



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