

Annexin A7/ANXA7 Protein, Human

Cat. No.:	HY-P7519
Synonyms:	rHuAnnexin A7; ANXA7; Annexin A7
Species:	Human
Source:	E. coli
Accession:	P20073-2 (M1-Q488)
Gene ID:	310
Molecular Weight:	Approximately 47.0 kDa

PROPERTIES

AA Sequence	<pre> MSYPGYPPTG YPPFPGYPPA GQESSFPPSG QYPYPSGFPP MGGGAYPQVP SSGYPGAGGY PAPGGYPAPG GYPGAPQPGG APSYPGVPPG QGFGVPPGGA GFSGYPPQPS QSYGGGPAQV PLPGGFPGGQ MPSQYPGGQP TYPSPATVT QVTQGTIRPA ANFDAIRD AE ILRKAMKGF G TDEQAIVDVV ANRSNDQRQK IKAAFKTSYG KDLIKDLKSE LSGNMEELIL ALFMPPTYD AWSLRKAMQG AGTQERVLIE ILCTR TNQE I REIVRCYQSE FGRDLEKDIR SDTSGHFERL LVSMCQGNRD ENQSINHQMA QEDAQRLYQA GEGRLGTDES CFNMILATRS FPQLRATMEA YSRMANRDLL SSVSREFSGY VESGLKTI LQ CALNRPAFFA ERLYYAMKGA GTDDSTLVRI VVTRSEIDL V QIKQMFAQMY QKTLGTM IAG DTSGDYRRL L LAIVGQ </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 10 mM Tris-HCl, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Annexins comprise a family of proteins that are involved in many aspects of cellular membrane dynamics and the regulation of membrane-associated proteins.

Annexin A7 is encoded by ANXA7 gene and is the first isolated annexin, mediating the Ca²⁺-regulated chromaffin granule exocytosis. Annexin 7 has 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. Annexin A7 plays an important role in membrane fusion during exocytosis, localizing predominantly in the cytoplasm and showing a high prevalence in the brain, heart, and skeletal muscle^[1].

REFERENCES

[1]. Weihua Ye, et al. Effect of annexin A7 suppression on the apoptosis of gastric cancer cells. *Mol Cell Biochem.* 2017 May;429(1-2):33-43.

[2]. Hu-Fang Yuan, et al. Downregulation of annexin A7 decreases proliferation, migration, and invasion of gastric cancer cells by reducing matrix metalloproteinase 1 and 9 expression. *Am J Transl Res.* 2019 May 15;11(5):2754-2764.

Caution: Product has not been fully validated for medical applications. For research use only.

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