

Annexin A5/ANXA5 Protein, Human

Cat. No.:	HY-P7517
Synonyms:	rHuAnnexin A5; ANXA5; Annexin A5; Annexin V; Calphobindin I (CPB-I); Endonexin II; Anchorin CII; ANX5; ENX2; PP4
Species:	Human
Source:	E. coli
Accession:	P08758 (A2-D320)
Gene ID:	308
Molecular Weight:	Approximately 33.0 kDa

PROPERTIES

AA Sequence	<pre> A Q V L R G T V T D F P G F D E R A D A E T L R K A M K G L G T D E E S I L T L L T S R S N A Q R Q E I S A A F K T L F G R D L L D D L K S E L T G K F E K L I V A L M K P S R L Y D A Y E L K H A L K G A G T N E K V L T E I I A S R T P E E L R A I K Q V Y E E E Y G S S L E D D V V G D T S G Y Y Q R M L V V L L Q A N R D P D A G I D E A Q V E Q D A Q A L F Q A G E L K W G T D E E K F I T I F G T R S V S H L R K V F D K Y M T I S G F Q I E E T I D R E T S G N L E Q L L L A V V K S I R S I P A Y L A E T L Y Y A M K G A G T D D H T L I R V M V S R S E I D L F N I R K E F R K N F A T S L Y S M I K G D T S G D Y K K A L L L L C G E D D </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 1 mM DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>The Annexins comprise a family of proteins that are involved in many aspects of cellular membrane dynamics and the regulation of membrane-associated proteins.</p> <p>Recombinant Human Annexin A5 is a Ca²⁺-sensitive protein that binds to negatively charged phospholipids, establishing specific interactions with other lipid microdomains^[1].</p> <p>Recombinant Human Annexin A5 promotes delivery of autophagosomes to lysosomes and inhibits endocytosis. Annexin A5</p>
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emerges as a possible positive regulator of autophagy and negative regulator of endocytosis through Ca²⁺ and phospholipid signalling pathways^{[1][1]}.

REFERENCES

- [1]. Guochang Hu, et al. Recombinant human annexin A5: a novel drug candidate for treatment of sepsis? Crit Care Med. 2014 Jan;42(1):219-20.
- [2]. Ghita Ghislat, et al. Annexin A5 stimulates autophagy and inhibits endocytosis. J Cell Sci. 2012 Jan 1;125(Pt 1):92-107.
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Caution: Product has not been fully validated for medical applications. For research use only.

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