

## Annexin A5/ANXA5 Protein, Human (solution)

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

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 1 mM DTT, 10% Glycerol, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<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 Ca<sup>2+</sup>-sensitive protein that binds to negatively charged phospholipids, establishing specific interactions with other lipid microdomains<sup>[1]</sup>.</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 Ca<sup>2+</sup> and phospholipid signalling pathways<sup>[1][1]</sup>.

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## REFERENCES

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- [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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