

Annexin A2/ANXA2 Protein, Human

Cat. No.:	HY-P7515
Synonyms:	rHuAnnexin A2; ANXA2; Annexin A2
Species:	Human
Source:	E. coli
Accession:	P07355-1 (S2-D339)
Gene ID:	302
Molecular Weight:	Approximately 38 kDa

PROPERTIES

AA Sequence	<p> S T V H E I L C K L S L E G D H S T P P S A Y G S V K A Y T N F D A E R D A L N I E T A I K T K G V D E V T I V N I L T N R S N A Q R Q D I A F A Y Q R R T K K E L A S A L K S A L S G H L E T V I L G L L K T P A Q Y D A S E L K A S M K G L G T D E D S L I E I I C S R T N Q E L Q E I N R V Y K E M Y K T D L E K D I I S D T S G D F R K L M V A L A K G R R A E D G S V I D Y E L I D Q D A R D L Y D A G V K R K G T D V P K W I S I M T E R S V P H L Q K V F D R Y K S Y S P Y D M L E S I R K E V K G D L E N A F L N L V Q C I Q N K P L Y F A D R L Y D S M K G K G T R D K V L I R I M V S R S E V D M L K I R S E F K R K Y G K S L Y Y Y I Q Q D T K G D Y Q K A L L Y L C G G D D </p>
Biological Activity	Measured in a cell proliferation assay using A549 cells. The ED ₅₀ this effect is ≤1.051 ng/mL, corresponding to a specific activity is ≥9.515×10 ⁵ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 20 mM Histidine-HCl, 6% Sucrose, 4% Mannitol, 0.05% Tween 80, pH 5.5. or PBS, pH 7.4 or PBS, pH 7.4, 6% saccharose, 4% mannitol and 0.05% Tween80.
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 A2 is an important member of annexin family of proteins expressed on surface of endothelial cells (ECs), macrophages, mononuclear cells and various types of cancer cells. Annexin A2 exhibits high affinity binding for calcium (Ca^{2+}) and phospholipids. ANX A2 plays an important role in many biological processes such as endocytosis, exocytosis, autophagy, cell-cell communications and biochemical activation of plasminogen.

REFERENCES

[1]. Mahesh C Sharma, et al. Annexin A2 (ANX A2): An emerging biomarker and potential therapeutic target for aggressive cancers. *Int J Cancer*. 2019 May 1;144(9):2074-2081.

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

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