

Collagen Alpha-1(XVIII) Chain/Endostatin Protein, Human (P.pastoris)

Cat. No.:	HY-P7009
Synonyms:	rHuEndostatin; Collagen alpha-1(XV) chain
Species:	Human
Source:	P. pastoris
Accession:	P39060 (A1571-K1754)
Gene ID:	80781
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	<p>A H S H R D F Q P V L H L V A L N S P L S G G M R G I R G A D F Q C F Q Q A R A</p> <p>V G L A G T F R A F L S S R L Q D L Y S I V R R A D R A A V P I V N L K D E L L</p> <p>F P S W E A L F S G S E G P L K P G A R I F S F D G K D V L R H P T W P Q K S V</p> <p>W H G S D P N G R R L T E S Y C E T W R T E A P S A T G Q A S S L L G G R L L G</p> <p>Q S A A S C H H A Y I V L C I E N S F M T A S K</p>
Biological Activity	The ED ₅₀ is 10 µg/mL as measured by Endothelial cells.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 17 mM citric-phosphate buffer, pH 6.2.
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	Recombinant Human Endostatin is an endogenous antiangiogenic peptide with multiple antitumor roles through modulation of various receptors in the plasma membrane, such as suppression of angiogenesis and inhibition of tumor-cell migration and invasion ^[1] . Recombinant Human Endostatin (rhEndostatin) shows a potent bioactivity and is capable of synergizing with CTX and DDP in suppression of tumor cell growth ^[2] .
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REFERENCES

- [1]. Guo ZY, et al. Effect of recombinant human endostatin on the expression of c-Myc and bFGF in mouse gastric cancer cells. Genet Mol Res. 2015 May 18;14(2):5258-65.
- [2]. Ren Z, et al. Anti-tumor effect of a novel soluble recombinant human endostatin: administered as a single agent or in combination with chemotherapy agents in mouse tumor models. PLoS One. 2014 Sep 17;9(9):e107823.
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Caution: Product has not been fully validated for medical applications. For research use only.

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