COL4A3 Protein, Human (His)

Cat. No.:	HY-P72148
Synonyms:	Alpha 3 type IV collagen; Alpha3 type IV collagen; CO4A3_HUMAN; COL4A 3; Col4a3; Collagen alpha 3IV; chain; Collagen IV alpha 3 polypeptide; Collagen type IV alpha 3 Goodpasture antigen; ; Collagen type IV alpha 3; Collagen type IV alpha 3 chain; Goodpasture antigen; OTTHUMP00000195044; Tumstatin
Species:	Human
Source:	E. coli
Accession:	Q01955 (G1427-K1668)
Gene ID:	1285
Molecular Weight:	Approximately 30.6 kDa

PROPERTIES

AA Sequence	G L K G K R G D S G S P A T W T T R G F V F T R H S Q T T A I P S C P E G T V P L Y S G F S F L F V Q G N Q R A H G Q D L G T L G S C L Q R F T T M P F L F C N V N D V C N F A S R N D Y S Y W L S T P A L M P M N M A P I T G R A L E P Y I S R C T V C E G P A I A I A V H S Q T T D I P P C P H G W I S L W K G F S F I M F T S A G S E G T G Q A L A S P G S C L E E F R A S P F L E C H G R G T C N Y Y S N S Y S F W L A S L N P E R M F R K P I P S T V K A G E L E K I I S R C Q V C M K K
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	COL4A3 protein, a crucial component of type IV collagen, serves as the major structural element in glomerular basement membranes (GBM), participating in the formation of a 'chicken-wire' meshwork alongside laminins, proteoglycans, and entactin/nidogen. Notably, tumstatin, a cleavage fragment derived from the collagen alpha 3(IV) NC1 domain, exhibits dual anti-angiogenic and anti-tumor cell activities. The regulation of these anti-tumor properties appears to involve RGD-independent mechanisms mediated by ITGB3, highlighting the intricate role of COL4A3 in influencing angiogenesis and

	tumor cell behavior.

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

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