

Recombinant Human Collagen IV Protein, His tagged, Animal Free

Cat. No. Collagen IV-016H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human Collagen IV is a 11.37 kDa protein containing 116 amino acid residues fused to a 6His tag N-terminal. rHuman Collagen IV migrate as 11-13 KDa band under reducing conditions. Recombinant human Collagen IV is a fragment of Collagen alpha-1(IV) chain, the major structural element of basal membranes. The amino acid sequence is mainly a repeating motif with glycine and contains the tripeptide Arg-Gly-Asp (RGD), considered as best know collagen cell surface receptors. rHcollagen IV 11K could participate in the regulation and cellular signaling via the RGD motif.

Species

Human

Source

Non-transgenic plants

Description

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen.. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation.

Form

Lyophilized

Molecular Mass

11.37 kDa

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Endotoxin	< 0.04 EU/μg protein (LAL method)
Purity	> 95% by SDS-PAGE gel, purified by sequential chromatography methods (FPLC)
Storage	This lyophilized preparation is stable at 2-8 centigrade for short term. For longer storage it should be kept at -20 centigrade. Reconstituted protein should be stored in working aliquots at –20 centigrade. Repeated freezing and thawing is not recommended.
Reconstitution	Always centrifuge the vial before opening. Lyophilized protein should be reconstituted in water following instructions of batch Quality Control Sheet. At higher concentrations solubility may be reduced and, due to the protein nature, dimmers and multimers generated. Optimal concentration should be determined for specific application.
Storage Buffer	Lyophilized Sodium Acetate Buffer pH 5-5.2. Sterile filtered through 0.2 μm filter.
GENE INFORMATION	
Official Symbol	Collagen IV
Synonyms	Collagen IV