

COL4A3 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P75683
Synonyms:	Collagen alpha-3(IV) chain; Goodpasture antigen; Tumstatin; COL4A3
Species:	Rat
Source:	HEK293
Accession:	F1LRJ1 (G1426-H1670)
Gene ID:	363265
Molecular Weight:	Approximately 59 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	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.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	COL4A3 protein, a crucial constituent of Type IV collagen, serves as the primary structural element in glomerular basement membranes (GBM), where it collaborates with laminins, proteoglycans, and entactin/nidogen to create a 'chicken-wire' meshwork. This intricate network plays a fundamental role in maintaining the structural integrity and stability of GBMs, essential for their proper functioning in renal physiology. COL4A3's involvement in the formation of the meshwork underscores its significance in supporting the integrity of glomerular basement membranes, pivotal for renal function and homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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