

COL4A3 Protein, Human, Recombinant (His)

General Information

Synonyms: Collagen alpha-3(IV) chain; Goodpasture antigen; COL4A3

Protein Construction: 1427-1668 aa

Species: Human

Expression Host: E. coli

Accession: Q01955

Molecular Weight: 30.6 kDa (predicted)

AA Sequence: GLKGGKRGDSGSPATWTRGFVFTRHSSQTTAIPSCPEGTVPLYSGFSLFVQGNQRAHGQDLGTLGSC LQRFTT
MPFLFCNVNDVCNFA SRNDYSYWLSTPALMPMNMAPITGRALEPYISRCTVCEGPAIAIAVHSQTTDIPPCPH
GWISLWKGFSFIMFTSAGSEGTQALASPGSCLEEFRA SPFLECHGRGTCNYYSNSYSFWLASLNPERMFRKP
IPSTVKAGELEKIISRCQVCMKK

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.; Tumstatin, a cleavage fragment corresponding to the collagen alpha 3(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity; these two anti-tumor properties may be regulated via RGD-independent ITGB3-mediated

mechanisms.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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