

Recombinant Human Collagen alpha-3(IV) chain(COL4A3),partial

Catalog No: #AP70182

Package Size: #AP70182-1 20ug #AP70182-2 100ug #AP70182-3 1mg

Description

Product Name	Recombinant Human Collagen alpha-3(IV) chain(COL4A3),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1427-1668aaSequence Info:Partial
Other Names	Goodpasture antigen
Accession No.	Q01955
Calculated MW	28.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	FVFTRHSQTTAIPSCPEGTVPLYSGFSFLVQGNQRAHGQDLGTLGSLQRFTTMPFLFCNVNDVCNFAARN DYSYWLSTPALMPMNMAPITGRALEPYISRCTVCEGPAIAIAVHSQTTDIPPCPHGWISLWKGFSEFIMFTSAGS EGTGQALASPGSCLEEFRAFPFLECHGRGTCNYYSNSYSFWLASLNPERMFRKPIPISTVKAGELEKIISRCQV CMK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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.

References

Novel COL4A5, COL4A4, and COL4A3 mutations in Alport syndrome. Nagel M., Nagorka S., Gross O. Hum. Mutat. 26:60-60(2005)

Research Topic: Cell Adhesion

Note: This product is for in vitro research use only and is not intended for use in humans or animals.