

Recombinant Human Collagen alpha-1(IV) chain(COL4A1) ,partial

Catalog No: #AP70181

Package Size: #AP70181-1 20ug #AP70181-2 100ug #AP70181-3 1mg

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Description

Product Name	Recombinant Human Collagen alpha-1(IV) chain(COL4A1) ,partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1445-1669aaSequence Info:Partial
Accession No.	P02462
Calculated MW	40.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	GFLVTRHSQTIDDPQCPSGTKILYHGYSLLYVQGNERAHGQDLGTAGSCLRKFSTMPFLFCNINNVCNFAARN DYSYWLSTPEPMPMSMAPITGENIRPFISRCACEAPAMVMAVHSQTIQIPPCPSGWSSWLWIGYSFVMHTSAG AEGSGQALASPGSCLEEFRSAPFIECHGRGTCNYYANAYSFWLATIERSEMFKKPTSTLKAGELRTHVSRC QVCMRRT
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. Arrestin, 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. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1,2 and p38 MAPK activation. Ligand for alpha1,beta1 integrin.

References

An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome. Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014)Research Topic:Cancer

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