Recombinant human Collagen alpha-2(IV) chain protein

Catalog No: #AP72178

Package Size: #AP72178-1 20ug #AP72178-2 100ug #AP72178-3 1mg

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human Collagen alpha-2(IV) chain protein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1493-1712aaSequence Info:Partial
Accession No.	P08572
Uniprot	P08572
GeneID	1284;
Calculated MW	28.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	VKHSQTDQEPMCPVGMNKLWSGYSLLYFEGQEKAHNQDLGLAGSCLARFSTMPFLYCNPGDVCYYASRNDKSYWLSTTAPLPMMPVAEDEIKPYISRCSVCEAPAIAIAVHSQDVSIPHCPAGWRSLWIGYSFLMHTAAGDEGGGQSLVSPGSCLEDFRATPFIECNGGRGTCHYYANKYSFWLTTIPEQSFQGSPSADTLKAGLIRTHISRCQVCMKNL
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 basent mbranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin,nidogen.Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces mitochondrial mbrane potential, and induces apoptosis. Specifically induces Fas-dependent apoptosis and activates procaspase-8 and -9 activity. Ligand for alphavbeta3 and alphavbeta5 integrins.

References

The DNA sequence and analysis of human chromosome 13.Dunham A., Matthews L.H., Burton J., Ashurst J.L., Howe K.L., Ashcroft K.J., Beare D.M., Burford D.C., Hunt S.E., Griffiths-Jones S., Jones M.C., Keenan S.J., Oliver K., Scott C.E., Ainscough R., Almeida J.P., Ambrose K.D., Andrews D.T. , Ashwell R.I.S., Babbage A.K., Bagguley C.L., Bailey J., Bannerjee R., Barlow K.F., Bates K., Beasley H., Bird C.P., Bray-Allen S., Brown A.J., Brown J.Y., Burrill W., Carder C., Carter N.P., Chapman J.C., Clamp M.E., Clark S.Y., Clarke G., Clee C.M., Clegg S.C., Cobley V., Collins J.E., Corby N., Coville G.J., Deloukas P., Dhami P., Dunham I., Dunn M., Earthrowl M.E., Ellington A.G., Faulkner L., Frankish A.G., Frankland J., French L., Garner P., Garnett J., Gilbert J.G.R., Gilson C.J., Ghori J., Grafham D.V., Gribble S.M., Griffiths C., Hall R.E., Hammond S., Harley J.L., Hart E.A., Heath P.D., Howden P.J., Huckle E.J., Hunt P.J., Hunt A.R., Johnson C., Johnson D., Kay M., Kimberley A.M., King A., Laird G.K., Langford C.J., Lawlor S.,

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Note: This product is for in vitro research use only