Recombinant Human Angiostatin

Catalog No: #AP60036



Package Size: #AP60036-1 10ug #AP60036-2 100ug #AP60036-3 500ug

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

Description	
Product Name	Recombinant Human Angiostatin
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Uniprot	P00747
GenelD	5340
Calculated MW	Approximately 29.7 KDa, a single non-glycosylated polypeptide chain containing 259 amino acids.
Target Sequence	VYLSECKTGN GKNYRGTMSK TKNGITCQKW SSTSPHRPRF SPATHPSEGL EENYCRNPDN
	DPQGPWCYTT DPEKRYDYCD ILECEEECMH CSGENYDGKI SKTMSGLECQ AWDSQSPHAH
	GYIPSKFPNK NLKKNYCRNP DRELRPWCFT TDPNKRWELC DIPRCTTPPP SSGPTYQCLK
	GTGENYRGNV AVTVSGHTCQ HWSAQTPHTH NRTPENFPCK NLDENYCRNP DGKRAPWCHT
	TNSQVRWEYC KIPSCDSSP
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM NaAc, pH 5.5, 4 % mannitol.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles 12 months from date of receipt, -20 to
	-70 °C as supplied 1 month, 2 to 8 °C under sterile conditions after reconstitution 3 months, -20 to -70 °C
	under sterile conditions after reconstitution.

Background

Angiostatin, is a ~30 kDa fragment of plasminogen that is encoded by the PLG gene in humans. It is produced, for example, by autoproteolytic cleavage of plasminogen, involving extracellular disulfide bond reduction by phosphoglycerate kinase. Furthermore, angiostatin can be cleaved from plasminogen by different metalloproteinases (MMPs), elastase, prostate-specific antigen (PSA), 13 kDa serine protease, or 24 kDa endopeptidase. Angiostatin is known to bind many proteins, especially to angiomotin and endothelial cell surface ATP synthase but also integrins, annexin II, C-met receptor, NG2 proteoglycan, tissue-type plasminogen activator, chondroitin sulfate proteoglycans, and CD26. It seems to involve inhibition of endothelial cell migration, proliferation and induction of apoptosis, but its mechanism of action is still unclear. Angiostatin is currently undergoing clinical trials for its use in anticancer therapy. Recombinant angiostatin is expressed in E. coli.

Note: This product is for in vitro research use only