

Recombinant Human Plasminogen

PLG-155H Human

Lot. No. (See product label)

Specification

Product Overview	Recombinant Human Angiostatin produced in E.coli is a single non-glycosylated polypeptide chain containing 259 amino acids and has a molecular mass of Approximately 30.0 KDa.
Description	Angiostatin K1-3 is a ~30 kDa fragment of plasminogen that has been shown to act as a potent inhibitor of angiogenesis and tumor growth in vitro and in vivo. Recombinant angiostatin is expressed in E. coli.
Sequences of amino acids	VYLSECKTGNGKNYRGTMSKTKNGITCQKWSSTSPHRPRFSPATHPSEGLE ENYCRNPDNDPQGPWCYTTDPEKRYDYCDILECEEECMHCSENYDYGKISK TMSGLECAWDSQSPHAHGYIPSKFNKLNKKNYCRNPDRELRPWCFTTD PNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNVAVTVSGHTCQHW SAQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEY CKIPSCSSP
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The activity is assayed on anti-proliferation and anti-migration of endothelial cells in vitro and anti-angiogenesis in vivo. The specific activity of anti-migration of endothelial cells in vitro is 0.55×105Units/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM NaAc, pH5.5, 4% mannitol.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.
Endotoxin	Less than 1EU/µg of rHuAngiostatin as determined by LAL method.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Gene Information	
Gene Name	PLG plasminogen [Homo sapiens]
Synonyms	PLG; plasminogen; DKFZp779M0222; plasmin;OTTHUMP00000017544; EC 3.4.21.7; Angiostatin
Gene ID	5340
mRNA Refseq	NM_000301

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Protein Refseq [NP_000292](#)

MIM [173350](#)

UniProt ID [P00747](#)

Chromosome Location 6q26

Pathway Complement and coagulation cascades; Neuroactive ligand-receptor interaction; Diabetes pathways; Hemostasis

Function apolipoprotein binding; calcium ion binding; peptidase activity; serine-type endopeptidase activity

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