

Recombinant Human PLG protein

Cat. No. PLG-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Angiostatin was expressed in E. coli.
Species	Human
Source	E.coli
Description	Ang K1-3 is a proteolytic fragment of plasminogen containing the first three kringle structures. A specific inhibitor of endothelial cell growth and angiogenesis. More active relative to kringles 1-4. Ang K1-3 reduces endothelial cell proliferation and acts as a potent inhibitor of angiogenesis and tumor growth.
Form	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM NaAc, pH5.5, 4% mannitol.
Bio-activity	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 55,000 Units/mg.
Molecular Mass	30.0 kDa
AA Sequence	VYLSECKTGN GKNYRGTM SK TKNGITCQKW SSTSPHRPRF SPATHPSEGL EENYCRNPDN DPQGPWCYTT DPEKRYDYCD ILECEEECMH CSGENYDGKI SKTMSGLEQC AWDSQSPHAH GYIPSKFPNK NLKKNYCRNP DRELRPWCFT TDPNKRWELC DIPRCTTPPP SSGPTYQCLKGTGENYRGNV AVTVSGHTCQ HWSAQTPHHTH NRTPENFPCK NLDENYCRNP DGKRAPWCHT TNSQVRWEYC

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	KIPSCDSSP
Purity	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Storage	The lyophilized Angiostatin K1-3 is stable for several weeks at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend to briefly centrifuge the vial prior to opening to bring the contents to the bottom. 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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	PLG plasminogen [Homo sapiens]
Official Symbol	PLG
Synonyms	PLG; plasminogen; plasmin; DKFZp779M0222;
Gene ID	5340
mRNA Refseq	NM_001168338
Protein Refseq	NP_001161810

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MIM	173350
UniProt ID	P00747
Chromosome Location	6q26
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem;
Function	apolipoprotein binding; cell surface binding; peptidase activity; protein binding; protein domain specific binding; serine-type endopeptidase activity;

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