

Recombinant Human Plasminogen

Cat. No. PLG-66H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Angiostatin produced in <i>Pichia Pastoris</i> is a single, non-glycosylated polypeptide chain having a molecular mass of 29711 Dalton.
Species	Human
Source	<i>P.pastoris</i>
Description	RHuAng 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. rHuAng K1-3 reduces endothelial cell proliferation and acts as a potent inhibitor of angiogenesis and tumor growth. The rHuAng K1-3 is purified by proprietary chromatographic techniques.
Physical Appearance	Sterile Filtered lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Formulation	Lyophilized from a (1mg/ml) solution in containing 0.5X PBS.
Solubility	It is recommended to reconstitute the lyophilized rHuAng K1-3 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Inhibitory activity (ED ₅₀ =70 nm) relative to Kringles 1-4 (ED ₅₀ =135 nm). Kringles 1-3

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acts as inhibitor of endothelial cell growth and angiogenesis.

Endotoxin

Less than 0.1 ng/g (IEU/g) of rHuAng K1-3.

Protein Content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.08 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of rHuAng K1-3 as a Reference Standard.

Storage

Lyophilized rHuAng K1-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuAng K1-3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

PLG plasminogen [Homo sapiens]

Synonyms

PLG; plasminogen; DKFZp779M0222; Plasminogen; Plasmin heavy chain A; Activation peptide; Angiostatin; Plasmin heavy chainA, short form; Plasmin light chain B; EC 3.4.21.7; OTTHUMP00000017544

Gene ID

5340

mRNA Refseq

NM_000301

Protein Refseq

NP_000292

MIM

173350

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UniProt ID	P00747
Chromosome Location	6q26
Pathway	Complement and coagulation cascades; Neuroactive ligand-receptor interaction; Diabetes pathways; Hemostasis; Signaling by PDGF
Function	calcium ion binding; apolipoprotein binding; peptidase activity; serine-type endopeptidase activity

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