

# Recombinant Human Plasminogen

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

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Human Angiostatin produced in <i>Pichia Pastoris</i> is a single, non-glycosylated polypeptide chain having a molecular mass of 29711 Dalton.                                                                                                                                                                                                                                              |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | <i>P.pastoris</i>                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>         | 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. |
| <b>Physical Appearance</b> | Sterile Filtered lyophilized powder.                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>              | 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.                                                                                                                                                                                                                                          |
| <b>Formulation</b>         | Lyophilized from a (1mg/ml) solution in containing 0.5X PBS.                                                                                                                                                                                                                                                                                                                                           |
| <b>Solubility</b>          | It is recommended to reconstitute the lyophilized rHuAng K1-3 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                                 |
| <b>Biological Activity</b> | Inhibitory activity (ED <sub>50</sub> =70 nm) relative to Kringles 1-4 (ED <sub>50</sub> =135 nm). Kringles 1-3                                                                                                                                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA