

Recombinant Human Plasminogen

Human, Recombinant (PLG)

Expressed in *E. coli*

Cat. No. CRP0840

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Angiostatin 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*.

M. W. : 30498.6Da

Recombinant: Expressed in *Pichia*

Purity: ≥95% as determined by SDS-PAGE and HPLC

Specific Activity: 0.55×10^5 Units/mg by Anti-migration Assay. The activity is assayed on anti-proliferation and anti-migration of endothelial cells *in vitro* and anti-angiogenesis *in vivo*.

Component: Angiostatin K 1-3 1mg/mL, NaAc 20 mM, NaCl 150 mM, pH 5.5.

Concentration: 1.1 mg / ml by BCA

PI: 7.8 by Isoelectric focusing

Endotoxin: less than 10EU/mg as determined by LAL method

Storage Buffer: PBS Buffer.

Storage: At 4°C for 6 months and -80°C for 2 years

GENE INFORMATION

Gene Name: [PLG plasminogen \[Homo sapiens \]](#)

Synonyms: PLG; plasminogen; DKFZp779M0222; plasmin; EC 3.4.21.7; Plasmin heavy chain A; Activation peptide; Angiostatin; Plasmin heavy chain A, short form; Plasmin light chain B; OTTHUMP00000017544

GeneID: [5340](#)

mRNA Refseq: [NM_000301](#)

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; serine-type endopeptidase activity; serine-type endopeptidase activity

REFERENCES

- 1.1. O'Reilly M S, et al. Angiostatin: a novel angiogenesis inhibitor that mediates the suppression of metastases by a Lewis lung carcinoma. *Cell*. 1994; 79: 315-328.
2. Gately S, et al. The mechanism of cancer mediated conversion of plasminogen to angiogenesis inhibitor angiostatin. *Proc Natl Acad Sci USA*. 1997; 94:10868-10872.

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45-16 Ramsey Road Shirley, NY 11967, USA
Technical Support: T: 631-871-5806 · F: 631-207-8356
E-mail: info@creative-biolabs.com
www.creative-biolabs.com