

Angiostatin

Human, Recombinant (Angiostatin)

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 *E.coli*

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

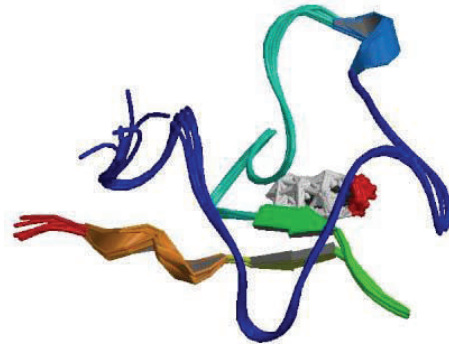
Storage Buffer: PBS Buffer.

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

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.

FOR RESEARCH USE ONLY



[PDB](#) rendering based on 1b2i.

Available structures: [1b2i](#), [1bml](#), [1bui](#), [1cea](#), [1ceb](#), [1ddj](#), [1hpi](#), [1hpk](#), [1i5k](#), [1ki0](#), [1krn](#), [1l4d](#), [1l4z](#), [1pk4](#), [1pkr](#), [1pmk](#), [1qrz](#), [1rjx](#), [2doh](#), [2doi](#), [2pk4](#), [5hpg](#)

GENE INFORMATION

Gene Name: [PLG](#)

Synonyms: RP1-81D8.1; DKFzP779M0222; EC 3.4.21.7; plasminogen, Plasminogen precursor, PLMN_HUMAN.

Background: Plasminogen (PLG) is a circulating zymogen that is converted to the active enzyme plasmin by cleavage of the peptide bond between arg560 and val561, which is mediated by urokinase and tissue plasminogen activator. The main function of plasmin is to dissolve fibrin clots. Plasmin, like trypsin, belongs to the family of serine.

mRNA Refseq: [NM_000301](#)

Protein Refseq: [NP_000292](#)

MIM: [173350](#)

GeneID: [5340](#)

Uniprot ID: P00747

Chromosome Location: 6q26

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

Function: apolipoprotein binding; calcium ion binding; peptidase activity.

Process: blood coagulation, induction of apoptosis, negative regulation of angiogenesis, tissue remodeling.