

## Angiostatin K1-3, Human

**Cat. No.:** Z02730-50

**Size:** 50.0 ug

**Synonyms:** Angiostatin K1-3, Human;

### Description:

Angiostatin K1-3 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*.

### Amino Acid Sequence:

```
00001 VYLSECKTGN GKNYRGTMSK TKNGITCQKW SSTSPHRPRF
00041 SPATHPSEGL EENYCRNPDN DPQGPWCYTT DPEKRYDYCD
00081 ILECEEECMH CSGENYDGKI SKTMSGLECG AWDSQSPHAH
00121 GYIPSKFPNK NLKKNYCRNP DRELRPWCFT TDPNKRWELC
00161 DIPRCTIPPP SSGPTYQCLK GTGENYRGNV AVTVSGHTCQ
00201 HWSAQTPHTH NRTPENFPCK NLDENYCRNP DGKRAPWCHT
00241 TNSQVRWEYC KIPSCDSSP
```

**Source:** *E. coli*

**Species:** Human

**Biological Activity:** Fully biologically active when compared to standard. The specific activity determined by an assay on anti-proliferation and anti-migration using endothelial cells in vitro and anti-angiogenesis in vivo is  $5.5 \times 10^5$  IU/mg.

**Molecular Weight:** Approximately 29.7 KDa, a single non-glycosylated polypeptide chain containing 259 amino acids.

**Formulation:** Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in 20 mM NaAc, pH 5.5, 4 % mannitol.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Reconstitution:** We recommend that this vial be briefly centrifuged 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  $\leq -20$  °C. Further dilutions should be made in appropriate buffered solutions.

**Purity:** > 95 % by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1 EU/ $\mu$ g of rHuAngiostatin as determined by LAL method.

**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.