



## User Manual

**Angiostatin K1-3 (Human)**

**Cat. No. HEOPP-01012**

**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*.

**Source:**

*Escherichia coli*

**Unit:**

50 µg

**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 < -20°C. Further dilutions should be made in appropriate buffered solutions.

**Formulation:**

Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM NaAc, pH 5.5, 4% mannitol.

**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.

**Molecular Weight:**

Approximately 30.0 kDa, a single non-glycosylated polypeptide chain containing 259 amino acids.

**Endotoxin:**

Less than 1 EU/ $\mu$ g of Angiostatin K1-3 as determined by LAL method.

**Usage:**

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

**Biological Activity:**

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.

**Physical Appearance:**

Sterile filtered white lyophilized (freeze-dried) powder.

**AA Sequence:**

VYLSECKTGN GKNYRGTMSK TKNGITCQKW SSTSPHRPRF SPATHPSEGL  
EENYCRNPDN DPQGPWCYTT DPEKRYDYCD ILECEEECMH CSGENYDGKI  
SKTMSGLECQ AWDSQSPHAH GYIPSKFPNK NLKKNYCRNP DRELRPWCFT  
TDPNKRWELC DIPRCTTPPP SSGPTYQCLK GTGENYRGNV AVTVSGHTCQ  
HWSAQTPHHTH NRTPENFPCK NLDENYCRNP DGKRAPWCHT TNSQVRWEYC  
KIPSCDSSP

**Purity:**

> 95% by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

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