

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Angiostatin K1-3

Catalog Number: PR1001

Source: Escherichia coli.

Quantity: 10µg/50µg/1.0mg

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.

Molecular Weight:

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

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The activity is assayed on anti-proliferation and anti-migration of endothelial cells in vitro and anti-angiogenesis in vivo. The specific activity of anti-migration of endothelial cells in vitro is 0.55×10⁵Units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in 20mM NaAc, pH5.5, 4% mannitol.

AA Sequence:

VYLSCKTGNGKNYRGTMSKTKNGIT
CQKWSSTSPHRPRFSPATHPSEGLEEN
YCRNPDNDPQGPWCYTDDPEKRYDYC
DILECEEEMHCSGENYDGKISKTMSSG
LECAWDSQSPHAGYIPSKFPNKNLK

KNYCRNPDRELRPWCFTTDPNKRWEL
CDIPRCTTTPPSSGPTYQCLKGTGENYR
GNVAVTVSGHTCQHWSAQTPTHNRTP
PENFPCKNLDENYCRNPDGKRAPWCH
TTNSQVRWEYCKIPSCDSSP

Endotoxin:

Less than 1EU/µg of rHuAngiostatin as determined by LAL method.

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.

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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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