



Product Datasheet

Product Name	Angiostatin Kringles 1-3 Human Recombinant
Cata No	CB500905
Source	<i>Escherichia coli</i> .
Synonyms	Angiostatin, Angiostatin Kringles 1-3, Ang K1-3.

Description

Ang K1-3 is a proteolytic fragment of plasminogen containing the first three kringle structures. A specific inhibitor of endothelial cell growth and angiogenesis. More active relative to kringles 1-4. Ang K1-3 reduces endothelial cell proliferation and acts as a potent inhibitor of angiogenesis and tumor growth.

Angiostatin Human Recombinant produced in *E.coli* is a single, non-glycosylated polypeptide chain containing 259 amino acids and having a molecular mass of approximately 30.0 kDa.

The Ang K1-3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

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 0.55×10^5 Units/mg.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM NaAc, pH5.5, 4%

mannitol.

Reconstitution

We recommend to briefly centrifuge the vial 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 $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Stability

The lyophilized Angiostatin K1-3 is stable for several weeks 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.

Sequence

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

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