

# Recombinant Human Angiomotin

**Cat. No.** AMOT-1989H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human AMOT (a.a. 259) is produced in <i>E.coli</i> , 30.0 kDa.                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>              | <i>E.coli</i>                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>         | 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. |
| <b>Amino Acid Sequence</b> | VYLSECKTGN GKNYRGTM SK TKNGITCQKW SSTSPHRPRF SPAT HPSEGL<br>EENYCRNPDN DPQGPWCYTT DPEKRYDYCD ILECEEECMH CSGE NYDGKI<br>SKTMSGLEQC AWDSQSPHAH GYIPSKFPNK NLKK NYCRNP DRELRPWCFT<br>TDPNKRWELC DIPRCTTPPP SSGP TYQCLKGTGENYRGNV AVTVSGHTCQ<br>HWSAQTPHTH NRTPENFPCK NLDENYCRNP DGKRAPWCHT TNSQVRWEYC<br>KIPSCDSSP.          |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                 |
| <b>Purity</b>              | Greater than 95.0% as determined by: Analysis by RP-HPLC; Analysis by SDS-PAGE.                                                                                                                                                                                                                                           |
| <b>Formulation</b>         | Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM NaAc, pH5.5, 4% mannitol.                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Solubility**

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

**Storage**

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.

## GENE INFORMATION

|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| <b>Gene Name</b>           | AMOT angiomin [ Homo sapiens ]                                        |
| <b>Synonyms</b>            | angiomin; KIAA1071; AMOT; angiomin p80 isoform; angiomin p130 isoform |
| <b>Gene ID</b>             | 154796                                                                |
| <b>mRNA Refseq</b>         | NM_001113490                                                          |
| <b>Protein Refseq</b>      | NP_001106962                                                          |
| <b>MIM</b>                 | 300410                                                                |
| <b>UniProt ID</b>          | Q4VCS5                                                                |
| <b>Chromosome Location</b> | Xq23                                                                  |

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**Function**

angiostatin binding; protein binding; receptor activity

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