



## Technical Data Sheet

### Recombinant Human Endothelial-Monocyte A Activating Polypeptide II (rHu EMAP-II)

#### *Human Endothelial-Monocyte Activating Polypeptide II*

EMAP-II is a tumor derived cytokine that exerts a wide range of activities on endothelial cells, monocytes and neutrophils. EMAP-II inhibits endothelial cell proliferation, vasculogenesis, neovessel formation, and can induce apoptosis. It is also chemotactic towards neutrophils and monocytes and induces myeloperoxidase activity from neutrophils. Of clinical importance, EMAP-II inhibits angiogenesis of vascular beds and suppresses the growth of primary and secondary tumors without affecting normal tissues. Mature EMAP-II is an 18.3 kDa protein, which is synthesized as the C-terminal portion of a biologically inactive precursor protein containing a propeptide of 146 amino acid residues.

Catalog Number:	RC214-22
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 18.3 KDa, a single non-glycosylated polypeptide chain containing 166 amino acids.
Quantity:	5ug/20ug/1000µg
Purity:	>98% by SDS-PAGE and HPLC analyses.
Biological Activity:	Determined by the apoptotic effect on MCF-7 cells using a concentration of 20-40 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 130mM NaCl.
AA Sequence:	SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQRNM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPAKELNP KKKIWEQIQP DLHTNDECVA TYKGVPFVEK GKGVCRAQTM SNSGIK
Endotoxin:	Less than 1EU/µg of rHuEMAP-II 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.



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**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 Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.