

Recombinant Human Endothelial-Monocyte Activating Polypeptide II

#R00090

Size: 5 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

SKPIDVSRLDLRIGCIITARKHPDADSLYVEEVDVGEIA

PRTVVSGLVNHVPLEQMQRNVILLCNLKPAKMRGV
LSQAMVMCASSPEKIEILAPPNGSVPGDRITFDAFPG
EPDKELNPKKKIWEQIQPDLHTNDECVATYKGVPFV
KGKGVCRQAQTMSNSGIK

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.

Product Specification

Synonyms	SCYE1, EMAP-2, Small Inducible Cytokine Subfamily E Member 1
Accession	Q12904
GeneID	9255
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 18.2 kDa, a single non-glycosylated polypeptide chain containing 166 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by the apoptotic effect using serum free human MCF-7 cells is less than 40

ng/ml, corresponding to a specific activity of $> 2.5 \times 10^4$ IU/mg.

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/ μ g of rHuEMAP-II as determined by LAL method.
