

Active Recombinant Human AIMP1 Protein (166 aa)

Cat. No. AIMP1-130A Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AIMP1 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	166
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Determined by the apoptotic effect on MCF-7 cells using a concentration of 20-40 ng/mL, corresponding to a Specific Activity of 2.5×10^4 IU/mg.
Molecular Mass	Approximately 18.3 KDa, a single non-glycosylated polypeptide chain containing 166 amino acids.

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AA Sequence	SKPIDVSRLDLRIGCIITARKHPDADSLYVEEVDVGEIAPRTVV/SGLVNHVPLEQMQR RMVILLCNLKPAMRGVLSQAMVMCASSPEKIEILAPPNGSVPGDRITFDAFPGEPR KELNPKKKIWEQIQPDLHTNDECVATYKGVPFVKGKGVCRQAQTMNSNGIK
Endotoxin	Less than 1 EU/mg of rHuEMAP-II as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 130mM NaCl.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	AIMP1 aminoacyl tRNA synthetase complex interacting multifunctional protein 1 [Homo sapiens (human)]
Official Symbol	AIMP1
Synonyms	AIMP1; aminoacyl tRNA synthetase complex interacting multifunctional protein 1;

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p43; HLD3; EMAP2; SCYE1; EMAPII;

Gene ID

9255

mRNA Refseq

NM_004757

Protein Refseq


NP_004748

MIM

603605

UniProt ID

Q12904

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