

Active Recombinant Human Aminoacyl TRNA Synthetase Complex-Interacting Multifunctional Protein 1

Cat. No. AIMP1-338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AIMP1 protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of EMAP II protein corresponding to amino acids SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQRNM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP

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KKKIWEQIQP DLHTNDECVA TYKGVPEFEVK GKGVCRAQTM SNSGIK.

Molecular Mass 18.3 kDa

Applications Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

Endotoxin Levels Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

Bioactivity Determined by the apoptotic effect on MCF-7 cells using a concentration of 20-40 ng/ml.

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name [AIMP1 aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 \[Homo sapiens \]](#)

Official Symbol AIMP1

Synonyms AIMP1; SCYE1; EMAP II; EMAP-2; EMAP-II; EMAP2; EMAPII; p43; small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating); small inducible cytokine subfamily E, member 1; OTTHUMP00000161878; ARS-interacting multifunctional protein 1; endothelial monocyte-activating polypeptide 2; endothelial-monocyte activating polypeptide II; multisynthetase complex auxiliary component p43

Gene ID [9255](#)

mRNA Refseq [NM_001142415](#)

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Protein Refseq	NP_001135887
MIM	603605
UniProt ID	Q12904
Chromosome Location	4q2
Pathway	Cytosolic tRNA aminoacylation; Gene Expression; tRNA Aminoacylation
Function	cell surface binding; cytokine activity; protein binding; protein homodimerization activity; tRNA binding.

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