Recombinant Human AIMP1, His-tagged

Cat. No. AIMP1-940H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AIMP1 protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 39.2 kDa (356aa).
Species	Human
Source	E.coli
Description	AIMP1, also known as EMPA2 or p43, is a cytokine that is specifically induced by apoptosis, and it is involved in the control of angiogenesis, inflammation, and wound healing. The release of this cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. This protein is also involved in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol.
Purity	> 85% by SDS - PAGE.
Concentration	0.25 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MLPAVAVSEP VVLRFMIFCR LLAKMANNDA VLKRLEQKGA EADQIIEYLK QQVSLLKEKA ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPSGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG TGDEKKAKEK IEKKGEKKEK KQQSIAGSAD SKPIDVSRLD

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	LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQNRM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP KKKIWEQIQP DLHTNDECVA TYKGVPFEVK GKGVCRAQTM SNSGIK.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	AIMP1 aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 [Homo sapiens]
Synonyms	SCYE1; AIMP1; 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
Protein Refseq	NP_001135887
MIM	603605
UniProt ID	Q12904
Chromosome Location	4q2

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Function	cell surface binding; cytokine activity; protein binding; protein homodimerization activity; tRNA binding
PDB rendering based on 1e7z.Available structures1e7z, 1euj, 1fl0	

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