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# Recombinant human EMAP-II protein

Catalog Number: ATGP0852

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-336aa

#### **UniProt No.**

012904

#### **NCBI Accession No.**

NP 001135888

#### **Alternative Names**

Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, Aminoacyl tRNA synthase complex-interacting multifunctional protein 1, EMAP2, EMAPII, p43, SCYE1

# PRODUCT SPECIFICATION

#### **Molecular Weight**

39.2 kDa (356aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

# Concentration

0.25mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

#### 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. Recombinant human AIMP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

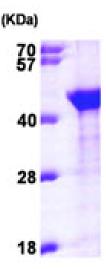
MGSSHHHHHH SSGLVPRGSH MLPAVAVSEP VVLRFMIFCR LLAKMANNDA VLKRLEQKGA EADQIIEYLK QQVSLLKEKA ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPSGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG TGDEKKAKEK IEKKGEKKEK KQQSIAGSAD SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQNRM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP KKKIWEQIQP DLHTNDECVA TYKGVPFEVK GKGVCRAQTM SNSGIK

#### **General References**

Zhu X., et al. (2009) Proc Natl Acad Sci u S A. 106(37):15944-9. Kim E., et al. (2008) J Immunol. 180(5):2894-902.

### **DATA**

# **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

