

Recombinant human EMAP-II protein

Catalog Number: ATGP0852

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-336aa

UniProt No.

Q12904

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 SSSLVPRGSH MLPAAVAVSEP VVLRFMIFCR LLAKMANNDA VLKRLEQKGA EADQIIIEYLK QQVSLLEKA
ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG
TGDEKKAKEK IEKKGEKKEK KQSIAGSAD SKPIDVSRDL LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH
VPLEQMQRNM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAP PGEPDKELNP KKKIWEQIQP
DLHTNDECVA TYKGVPFVEK GKGVCRAQTM SNSGIK

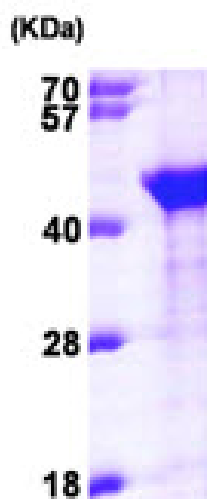
General References

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



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

15% SDS-PAGE (3ug)