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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

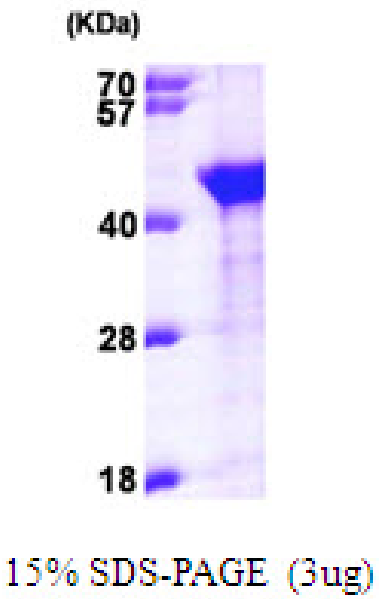
MGSSHHHHHH SSGLVPRGSH MLPAVAVSEP VVLRFMIFCR LLAKMANNDA VLKRLEQKGA EADQIIEYLK QQVSLLKEKA ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPSGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG TGDEKKAKEK IEKKGEKKEK KQQSIAGSAD SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQNRM VILLCNLKPA KMRGVLSQAM VMCASSPEKI 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.