



Aminoacyl tRNA Synthetase Complex-Interacting Multifunctional Protein 1, His Tag, human recombinant

Catalog No: 97402
Lot No: XXXXX
Source: *E. coli*
Synonyms: Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1, Multisynthase complex auxiliary component p43, AIMP1, EMAP2, SCYE1, p43, EMAP11

Background

AIMP1 (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 the AIMP1 cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. Furthermore, AIMP1 is involved in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells.

Description

AIMP1 human recombinant fused with a 20 amino acid His Tag at N-terminus produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 356 amino acids (1-336) and having a molecular mass of 39.2 kDa (Molecular size on SDS-PAGE will appear higher). AIMP1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The AIMP1 solution (0.25 mg/ml) 20 mM Tris-HCl buffer (pH 8.0), 0.2 M NaCl, 2 mM DTT and 10% glycerol.

Stability

AIMP1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MLPAAVAVSEPVVLRFMIFCR LLAQMANNDA VLKRLEQKGA EADQIIEYLK QQVSLLEKA
ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG
TGDEKKAKEK IEKKGEKKEK KQQSIAGSAD SKPIDVSRDLRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH
VPLEQMQRNM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDFAP PGEPPKELNP KKKIWEQIQP
DLHTNDECVA TYKGVPPFEVK GKGVCRAQTM SNSGIK

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