



Recombinant Mouse Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 (Aimp1)

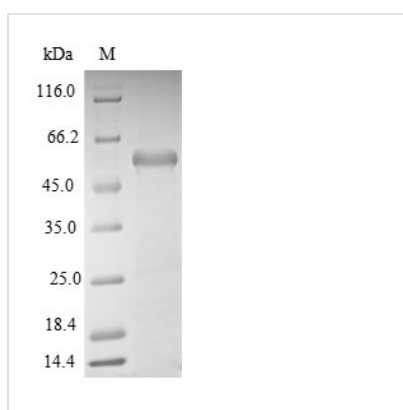
Product Code	CSB-EP020871MO
Relevance	Non-catalytic component of the multisynthase complex. Stimulates the catalytic activity of Cytoplasmic domain arginyl-tRNA synthase. Binds tRNA. Possesses inflammatory cytokine activity. Negatively regulates TGF-beta signaling through stabilization of SMURF2 by binding to SMURF2 and inhibiting its SMAD7-mediated degradation. Involved in glucose homeostasis through induction of glucagon secretion at low glucose levels. Promotes dermal fibroblast proliferation and wound repair. Regulates KDEL1-mediated retention of HSP90B1/gp96 in the endoplasmic reticulum. Plays a role in angiogenesis by inducing endothelial cell migration at low concentrations and endothelial cell apoptosis at high concentrations. Induces maturation of dendritic cells and monocyte cell adhesion. Modulates endothelial cell responses by degrading HIF-1A through interaction with PSMA7 (By similarity).
Abbreviation	Recombinant Mouse Aimp1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P31230
Alias	Multisynthase complex auxiliary component p43 Cleaved into the following chain: Endothelial monocyte-activating polypeptide 2 Short name: EMAP-2 Alternative name(s): Endothelial monocyte-activating polypeptide II Short name: EMAP-II Small inducible cytokine subfamily E member 1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ATNDAVLKRLEQKGAEADQIIEYLKQQVALLKEKAILQATMREEKKLRVENAKL KKEIEELKQELILAEIHNGVEQVRVRLSTPLQTNCTASESVVQSPSVATTASPAT KEQIKAGEEKKVKEKTEKKGEKKEKQQSAAASTDSKPIDASRLDLRIGCIVTAK KHPDADSLYVEEVDVGEAAPRTVVSGLVNHVPLEQMQRNMVLLCNLKPAAKM RGVLSQAMVMCASSPEKVEILAPPNGSVPGDRITFDAPFGEPDKELNPKKKIW EQIQPDLTNAECVATYKGAPFEVKGKGVCRQAQTMANSQIK
Research Area	Cell Biology
Source	E.coli
Target Names	Aimp1
Protein Names	Recommended name: Aminoacyl tRNA synthase complex-interacting



multifunctional protein 1 Alternative name(s): Multisynthase complex auxiliary component p43 Cleaved into the following chain: 1. Endothelial monocyte-activating polypeptide 2 S

Expression Region	2-310aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	49.9kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.