

Active Recombinant Mouse Aminoacyl tRNA Synthetase Complex-Interacting Multifunctional Protein 1, His-tagged

Cat. No. Aimp1-549M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Aimp1 protein was expressed in E. coli with a N-terminal Met and 6-His tag. Ala2-Lys310.
Species	Mouse
Source	E.coli
Protein Length	2-310 a.a.
Description	Aimp1 is a 23 kDa polypeptide originally identified in the supernatant of TNF α treated Meth A fibrosarcoma cells. In addition to EMAP1/S100C and EMAP1/VEGF, Aimp1 was one of three molecules presumed to enhance TNF α induced tissue factor expression on endothelial cells. ProEMAP1, otherwise known as p43, is the 310 amino acid (aa) precursor to EMAP1. It is considered to have widespread, if not ubiquitous expression, and is found both intra and extracellularly. ProAimp1 contains no canonical signal sequence. It does possess a 144 aa N-terminus that is characterized by the presence of two coiled coil regions (aa 6-77) and two heparin binding motifs (aa 71-73 and 120-122). The C-terminal 166 aa are synonymous with Aimp1.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Met

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Molecular Weight	34.7 kDa
Activity	Measured by its ability to induce TNF α secretion by RAW 264.7 mouse macrophages. When rmEMAPII is coated, it will induce TNF α production by RAW 264.7 cells in the presence of Polymyxin B (20 μ g/mL) with an ED50 range of 3-10 μ g/mL.
Endotoxin Level	< 1.0 EU per 1 μ g of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μ g/mL in sterile PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Aimp1 aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 [Mus musculus]
Official Symbol	Aimp1
Synonyms	Aimp1; aminoacyl tRNA synthetase complex-interacting multifunctional protein 1; p43; Emap2; Scye1; EMAPII; AIMP1/p43; 9830137A06Rik; ARS inducible multifunctional protein 1; endothelial monocyte activating polypeptide 2; multisynthetase complex auxiliary component p43; small inducible cytokine subfamily E, member 1; multisynthetase complex auxiliary component p43
Gene ID	13722

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mRNA Refseq	NM_007926
Protein Refseq	NP_031952
Chromosome Location	3; 3 H2
Pathway	Cytosolic tRNAaminoacylation; Gene Expression; mRNA processing; tRNA Aminoacylation
Function	cell surfacebinding; protein homodimerization activity; tRNA binding

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