

# 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

### ProteinLength

2-310 a.a.

### Description

Aimp1 is a 23 kDa polypeptide originally identified in the supernatant of TNF $\alpha$  treated Meth A fibrosarcoma cells. In addition to EMAP1/S100C and EMAP3/VEGF, Aimp1 was one of three molecules presumed to enhance TNF $\alpha$  induced tissue factor expression on endothelial cells. ProEMAP2, otherwise known as p43, is the 310 amino acid (aa) precursor to EMAP2. 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  $\mu$ m filtered solution in PBS.

### N-terminalSequence

Met

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<b>Molecular Weight</b>	34.7 kDa
<b>Activity</b>	Measured by its ability to induce TNF $\alpha$ secretion by RAW 264.7 mouse macrophages. When rEMAPII is coated, it will induce TNF $\alpha$ production by RAW 264.7 cells in the presence of Polymyxin B (20 $\mu$ g/mL) with an ED50 range of 3-10 $\mu$ g/mL.
<b>Endotoxin Level</b>	< 1.0 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Purity</b>	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 $\mu$ g/mL in sterile PBS.
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">Aimp1 aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Aimp1</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">13722</a>

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

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