

Product information



AIMP1 (IB-03-0019)

Catalog No. : IB-03-0019

Product Name : Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 Protein

Lot No. : PA1P-0901

Synonym : p43, SCYE1, EMAP-2

Molecular Weight : 35kDa

Length : 312 aa

Source : Human

Purification : Multi-step chromatography

Expression system : Recombinant human AIMP1 expressed by *E.coli*.

Conjugate/Tag : Unconjugated, No Tag

Background : AIMP1, previously known as p43, is an auxiliary component of ARS multi complex and a precursor of cytokine endothelial-monocyte activating polypeptide II (EMAPII). AIMP1 is known as a cytokine working in the control of angiogenesis, inflammation and wound healing. AIMP1 also has glucagon-like hormonal activity.

Storage buffer : Phosphate buffered saline, pH 7.4

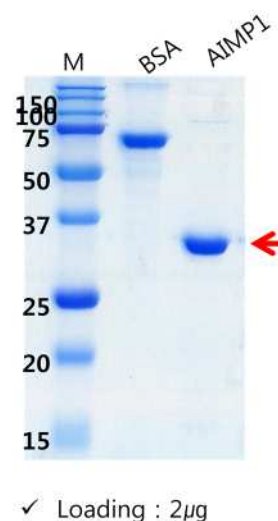
Storage instruction : Store at -70°C.

Purity : 98.15%

Quantity : 50µg

Concentration : 0.50mg/ml

Application : Western blot, ELISA, antibody production, protein array, activity assay.



Reference :

1. Identification of CD23 as a functional receptor for the proinflammatory cytokine AIMP1/p43. Hyuk-Sang Kwon et al., *Journal of Cell Science*, Vol.125, 4620–4629, 2012
2. AIMP1 deficiency enhances airway hyperreactivity in mice via increased TH2 immune responses. Hye-Jin Hong et al., *Clinical Immunology*, Vol.143, 256–265, 2012
3. Enhancement of Toll-like receptor 2-mediated immune responses by AIMP1, a novel cytokine, in mouse dendritic cells. Eugene Kim et al., *Immunology*, Vol.134, 73–81, 2011
4. Toll-like receptor 4-mediated c-Jun N-terminal kinase activation induces gp96 cell surface expression via AIMP1 phosphorylation. Gyuyoung Kim et al., *Biochemical and Biophysical Research Communications*, Vol. 397, 100–105, 2010

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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5. Antitumor activity and pharmacokinetic properties of ARS-interacting multi-functional protein 1 (AIMP1/p43). Jung Min Han et al., *Cancer Letters*, Vol.287, 157–164, 2010

6. Aminoacyl-tRNA synthetase-interacting multifunctional protein 1/p43 controls endoplasmic reticulum retention of heat shock protein gp96; Its pathological implications in lupus-like autoimmune disease. Jungmin Han et al., *American Journal of Pathology*, Vol.170, 2042-2054, 2007

7. The novel cytokine p43 induces IL-12 production in macrophages via NF- κ B activation, leading to enhanced IFN-gamma production in CD4+. Eugene Kim et al., *J Immunol*, Vol.176, 256-264, 2006

8. Hormonal activity of AIMP1 p43 for glucose homeostasis. Sanggyu Park et al., *PNAS*, Vol.103, 14913-14918, 2006

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