
Product Data Sheet

Product Name: AIMP1 Human
 Cat. No.: GP20182
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1; Multisynthase complex auxiliary component p43; AIMP1; EMAP2; SCYE1; p43; EMAPII.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLPAAVAVSEP VVLRFMIFCR LLAKMANNDA VLKRLEQKGA EADQIIEYLK QQVSLLEKA ILQATLREEK KLRVENAKLK KEIEELKQEL IQAEIQNGVK QIPFPGTPL HANSMVSENV IQSTAVTTVS SGTKEQIKGG TGDEKKAKEK IEKKGEKKEK KQQSIAGSAD SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQMQRNM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP KKKIWEQIQP DLHTNDECVA TYKGVPEFEVK GKGVCRAQTM SNSGIK.		
Formulation	The AIMP1 solution (0.25mg/ml) 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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 a.a.) and having a molecular mass of 39.2kDa (Molecular size on SDS-PAGE will appear higher). The AIMP1 is purified by proprietary chromatographic techniques.

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