

EMAP-II Protein, Human

Cat. No.:	HY-P7156
Synonyms:	rHuEMAP-II; Endothelial-Monocyte A Activating Polypeptide II; EMAP-2; AIMP1
Species:	Human
Source:	E. coli
Accession:	Q12904 (S147-K312)
Gene ID:	9255
Molecular Weight:	Approximately 18.2 kDa

PROPERTIES

AA Sequence	<div> <div>SKPIDVSRLD</div> <div>RTVVSGLVNH</div> <div>VMCASSPEKI</div> <div>KKKIWEQIQP</div> <div>SNSGIK</div> </div> <div> <div>L R I G C I I T A R</div> <div>V P L E Q M Q N R M</div> <div>E I L A P P N G S V</div> <div>D L H T N D E C V A</div> </div> <div> <div>K H P D A D S L Y V</div> <div>V I L L C N L K P A</div> <div>P G D R I T F D A F</div> <div>T Y K G V P F E V K</div> </div> <div> <div>E E V D V G E I A P</div> <div>K M R G V L S Q A M</div> <div>P G E P D K E L N P</div> <div>G K G V C R A Q T M</div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	EMAP II is a proinflammatory cytokine and chemoattractant of macrophages ^[1] . EMAP-II protein possesses a wide range of activities toward endothelial cells, neutrophils, and monocyte/macrophages in vitro. EMAP-II up-regulates endothelial E and P-selectin expression and release of von Willebrand factor. It is also chemotactic for neutrophils and monocytes and induces release of myeloperoxidase activity from neutrophils ^[2] .
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REFERENCES

[1]. Schluesener HJ, et al. Localization of endothelial-monocyte-activating polypeptide II (EMAP II), a novel proinflammatory cytokine, to lesions of experimental autoimmune encephalomyelitis, neuritis and uveitis: expression by monocytes and activated microglial cells. *Glia*. 1997 Aug;20(4):365-72.

[2]. Barnett G, et al. Prostate adenocarcinoma cells release the novel proinflammatory polypeptide EMAP-II in response to stress. *Cancer Res*. 2000 Jun 1;60(11):2850-7.

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

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