9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

EMAP II Human

Endothelial-Monocyte Activating Polypeptide II Human Recombinant
CYK0138

Product Overview

Name	EMAP II Human

Description

Endothelial-Monocyte Activating Polypeptide II Human Recombinant

Accession (Primary)	Q12904

Synonyms

AIMP1, EMAP2, EMAP-2, EMAPII, SCYE1, Multisynthetase complex auxiliary component p43, Endothelial monocyte-activating polypeptide 2, EMAP-II, p43.

Introduction

EMAP-II also called SCYE1 is a tumor derived cytokine that plays a role in a wide variety of activities on endothelial cells, monocytes and neutrophils. EMAP-II inhibits endothelial cell proliferation, vasculogenesis, neovessel formation, and can induce apoptosis. It is also chemotactic towards neutrophils and monocytes and induces myeloperoxidase activity from neutrophils. EMAP-II clinical value is inhibiting angiogenesis of vascular beds and suppressing the growth of primary and secondary tumors with no affect to normal tissues. SCYE1is specifically induced by apoptosis, and it is involved in the control of angiogenesis, inflammation, and wound healing. The release of this SCYE1 renders the tumor-associated vasculature sensitive to tumor necrosis factor. The precursor protein is identical to the p43 subunit, which is associated with the multi-tRNA synthetase complex, and it modulates aminoacylation activity of tRNA synthetase in normal cells. EMAP-2 plays a role in in the stimulation of inflammatory responses after proteolytic cleavage in tumor cells.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium Phosphate buffer pH=7.5 and 130mM sodium chloride.

Stability

Lyophilized EMAP-II although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EMAP-II should be stored at 4°C between 2-7 days and for future use below -18°C. Please

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prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQM QNRM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP KKKIWEQIQP DLHTNDECVA TYKGVPFEVK GKGVCRAQTM SNSGIK.

Biological Activity

Determined by the apoptotic effect on MCF-7 cells using a concentration of 20-30 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized EMAP-II in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

EMAP II Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q12904)