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32-1142: EMAP Recombinant Protein

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

Description

Source : Escherichia Coli. EMAP-II Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 166 amino acids and having a molecular mass of 18.3 kDa. The EMAP-II is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium Phosphate buffer pH=7.5 and 130mM sodium chloride.
Storage condition :	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 prevent freeze-thaw cycles.
Amino Acid :	SKPIDVSRLD LRIGCIITAR KHPDADSLYV EEVDVGEIAP RTVVSGLVNH VPLEQM QNRM VILLCNLKPA KMRGVLSQAM VMCASSPEKI EILAPPNGSV PGDRITFDAF PGEPDKELNP KKKIWEQIQP DLHTNDECVA TYKGVPFEVK GKGVCRAQTM SNSGIK.

Application Note

It is recommended to reconstitute the lyophilized EMAP-II in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. Determined by the apoptotic effect on MCF-7 cells using a concentration of 20-30 ng/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.