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32-1046: AREG Recombinant Protein

Alternative Name : Schwannoma-derived growth factor,Colorectum cell-derived growth factor,AR,CRDGF,SDGF,AREGB,MGC13647.

Description

Source : Escherichia Coli. Amphiregulin (AREG) Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 98 amino acids and having a molecular mass of 11.3 KDa.The AREG is purified by proprietary chromatographic techniques. Amphiregulin (AREG) belongs to the EGF family of cytokines that contain 10 proteins such as EGF, TGFb, HBEGF, and the various heregulins. These cytokines are synthesized as transmembrane precursors and are categorized by the presence of one or several EGF structural units in their extracellular domain. The soluble forms of these cytokines are released by proteolytic cleavage. Initially, Amphiregulin (AREG) was isolated from the conditioned media of a PMA treated MCF 7 human breast carcinoma cell line. Multiple forms of native AR containing either 78 or 84 amino acid residues and both N and O-linked oligosaccharides have been found. Amphiregulin (AREG) mRNA expression can be identified in several carcinoma cell lines and the epithelial cells of numerous human tissues such as colon, stomach, breast, ovary, kidney, etc.

Product Info

Amount :	50 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.
Storage condition :	Lyophilized AREG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution AREG should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	SVRVEQVVKP PQNKTESENT SDKPKRKKKG GKNGKNRRNR KKKNPCNAEF QNFCIHGECK YIEHLEAVTC KCQQEYFGER CGEKSMKTHS MIDSSLSK.

Application Note

It is recommended to reconstitute the lyophilized AREG in sterile 18M-cm H2O not less than 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions. Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED50 for this effect is 5-10 ng/ml, corresponding to a specific activity of 100,000-200,000units/mg.

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