
Product Data Sheet

Product Name: AREG Human
 Cat. No.: GP20071
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Schwannoma-derived growth factor; Colorectum cell-derived growth factor; AR; CRDGF; SDGF; AREGB; MGC13647.		
Amino Acid Sequence	SVRVEQVVKP PQNKTESENT SDKPKRKKKG GKNGKNRRNR KKNPCNAEF QNFCIHGECK YIEHLEAVTC KCQQEYFGER CGEKSMKTHS MIDSSLSK.		
Solubility	It is recommended to reconstitute the lyophilized AREG in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.		

Introduction

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.

Biological Activity

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.

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

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Stability

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.

Background

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.

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