

Amphiregulin Protein, Human, Recombinant

General Information

Synonyms:	AR;CRDGF;Amphiregulin;Colorectum Cell-Derived Growth Factor;AREG;SDGF;AREGB
Protein Construction:	Ser101-Lys198
Species:	Human
Expression Host:	E. coli
Accession:	P15514
Molecular Weight:	16 KDa (reducing condition)
AA Sequence:	Ser101-Lys198

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Amphiregulin (AREG) is a single-pass membrane protein with 252 amino acids. AREG belongs to the amphiregulin family, which contains 1 EGF-like domain. AREG is expressed in a variety of tissues including ovary, placenta, lung, kidney, stomach, colon, and breast. It is related to Epidermal Growth Factor (EGF) and Transforming Growth Factor Alpha (TGF-alpha). As an EGF-related growth factor, AREG interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines. AREG may

also play a protective role in Bleomycin-Induced Pneumopathy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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