

Recombinant Human Amphiregulin/AREG Protein

Catalog No. PKSH032063

Note: Centrifuge before opening to ensure complete recovery of vial contents.

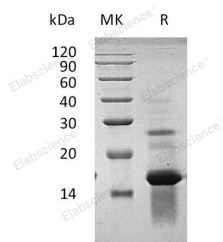
Description

Synonyms	Amphiregulin;AR;Colorectum Cell-Derived Growth Factor;CRDGF;AREG;SDGF;AREGB
Species	Human
Expression Host	E.coli
Sequence	Ser101-Lys198
Accession	P15514
Calculated Molecular Weight	11.4 kDa
Observed molecular weight	16 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Amphiregulin (AREG) is a single-pass membrane protein with 252 amino acids. AREG belongs to the amphiregulin

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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.