

Amphiregulin Protein, Human, Recombinant (HEK293)

General Information

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| Synonyms: | AR;Colorectum cell-derived growth factor (CRDGF);AREG |
| Protein Construction: | Ser101-Lys198 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q5U026 |
| Molecular Weight: | 15-20 kDa (reducing conditions) |

QC Testing

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| Biological Activity: | ED50 < 0.2 ng/ml, measured in a cell proliferation assay using 3T3 cells. |
| Purity: | > 95% as determined by SDS-PAGE |
| Endotoxin: | < 0.2 EU/μg of protein as determined by the LAL method. |
| Formulation: | Lyophilized from a 0.2 μm filtered solution in PBS. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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 is a member of the EGF family of cytokines, which comprises at least ten proteins including EGF, TGF-α, HB-EGF, Epiregulin, Tomoregulin, Neuregulins and the various heregulins. Through the EGF/TGF-α receptor, it stimulates growth of keratinocytes, epithelial cells and some fibroblasts. Amphiregulin also inhibits the growth of certain carcinoma cell lines. Synthesized as a transmembrane protein, Amphiregulin's extracellular domain is proteolytically processed to release the mature protein.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481