

Rev05  
Update: Aug,11,2025**DATASHEET**

# Amphiregulin, Human

Cat. No.: Z03103

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>Amphiregulin (Ser101-Lys198) Accession # Q5U026</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.2 ng/ml, measured in a cell proliferation assay using 3T3 cells.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	15~20 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	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.

## Background

**Target 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.

**Synonyms :** AR; AREG; Colorectum cell-derived growth factor (CRDGF)

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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