

Rev03
Update: Dec,14,2021

DATASHEET

Amphiregulin, Human

Cat. No.: Z03103

Product Introduction

Species	Human
Protein Construction	Amphiregulin (Ser101-Lys198) Accession # Q5U026
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 0.2 ng/ml, measured in a cell proliferation assay using 3T3 cells.
Expression System	HEK 293
Apparent Molecular Weight	15~20 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	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 ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	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.