

Human EGF protein (active)

Cat. No. GTX136910-pro
Applications Functional Assay

Species Human

Package

500 µg

PRODUCT

Summary

Epidermal Growth Factor (EGF) is a 53-a.a. peptide cleaved from a 1207 a.a. transmembrane glycoprotein precursor. Its binding to the EGF receptor (EGFR) affects cell proliferation and differentiation via downstream effectors.

Applications

Application Note

The determined ED50 is ≤ 0.1 ng/mL, which corresponds to a specific activity of $\geq 1 \times 10^7$ units/mg and is comparable to similar commercial products. The biological activity of this recombinant human EGF protein was analyzed using the BALB/c 3T3 Clone A31 mouse embryonic fibroblast cell proliferation assay (Rubin, J.S. et al. (1991)).

Observed MW (kDa) 12 kDa.

Properties

Form Lyophilized powder

Buffer Reconstitute with distilled water to 0.1 mg/ml. Lyophilized from 50mM PBS, 100mM NaCl, 5% Trehalose.

Preservative No preservatives

Storage Store at 4°C or below. After reconstitution, keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. For long-term storage after reconstitution, aliquot and store at -70°C or below. Do not vortex.

Region/Sequence Mature human EGF protein (Asn971~Arg1023 of NP_001954.2)

Expression System E. Coli

Purity > 98%

Endotoxin < 0.1 EU/µg

Conjugation Unconjugated

Note

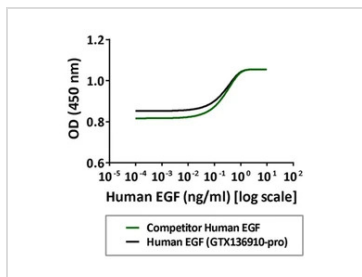
For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.



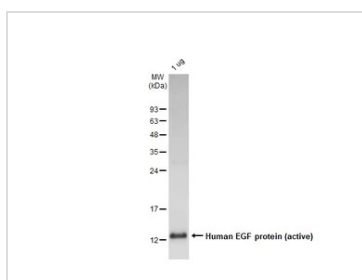
For full product information, images and publications, please visit our [website](#).

DATA IMAGES



GTX136910-pro Functional Assay Image

Serial dilutions of Human EGF protein (active) were added to BALB/c 3T3 Clone A31 cells. Cell proliferation was measured and the linear portion of the curve was used to calculate the ED50.



GTX136910-pro Image

1 µg of GTX136910-pro Human EGF protein (active) was analyzed using SDS-PAGE and stained with coomassie blue and captured by monochrome camera.



For full product information, images and publications, please visit our [website](https://www.genetex.com).