

## GFH26 Recombinant Human EGF

### Description

Epidermal Growth Factor (EGF) is a growth factor that stimulates the proliferation, differentiation, and survival of epithelial and epidermal cells. EGF contains three intramolecular disulfide bonds and binds in high affinity to the epidermal growth factor receptor (EGFR). EGF is overexpressed in multiple tumor cell lines and promotes resistance to chemotherapy and radiation treatments.

<b>Length</b>	53 aa
<b>Molecular Weight</b>	6.2 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P01133
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

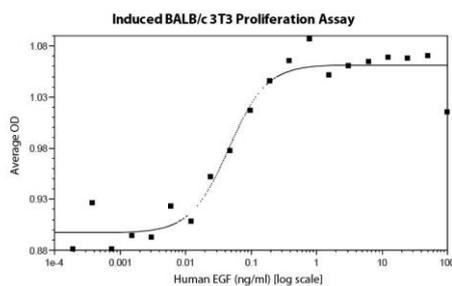
### Specifications

<b>Alternative Names</b>	Epidermal Growth Factor, pro-epidermal growth factor, urogastrone, URG, β-urogastrone, HOMG4
<b>Biological Activity</b>	Human EGF is fully biologically active when compared to standard. The activity is determined by the dose-dependent proliferation of 3T3 cells proliferation and it is typically between 20 - 100 pg/ml. This corresponds to an expected specific activity of $1 \times 10^7$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	NSDSECLSH DGYCLHDGVC MYIEALDKYA CNCVVGYIGE RCQYRDLKWW ELR

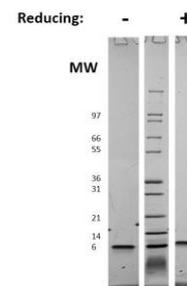
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of BALB/c 3T3 cells assay for Human EGF. Cell proliferation was measured to calculate the ED50, which is as expected between 20 - 100 pg/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human EGF has a predicted Mw of 6.2 kDa.