

GFR5 Recombinant Rat 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.

Length	54 aa
Molecular Weight	6.3 kDa
Source	E. coli
Accession Number	P07522
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

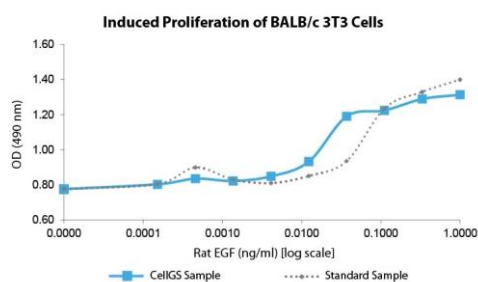
Specifications

Alternative Names	Epidermal Growth Factor, pro-epidermal growth factor, urogastrone, URG, β-urogastrone, HOMG4
Biological Activity	Rat EGF is fully biologically active when compared to standard. The activity is determined by the dose-dependent proliferation of BALB/c 3T3 cells proliferation and it is typically less than 1 ng/ml. This corresponds to an expected specific activity of 1.0×10^6 units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MNSNTGCPPS YDGYCLNGGV CMYVESVDRY VCNCVIGYIG ERCQHRDLRW WKLK

Preparation and Storage

Reconstitution	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.
Stability and Storage	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 Rat EGF. Cell proliferation was measured to calculate the ED50, which is as expected less than 1 ng/ml.