



# Recombinant Rat EGF

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>R20-072</b>
Size:	100 µg
Lot. No.:	According to product label

### Sequence

MNSNTGCPPS YDGYCLNGGV CMYVESVDYR VCNCVIGYIG  
ERCQHRDLRW WKLR

### Database References

<b>Protein RefSeq:</b>	NP_036974.1
<b>Uniprot ID:</b>	P07522
<b>mRNA RefSeq:</b>	NM_012842.1

## Scientific Background

<b>Gene-ID (NCBI):</b>	25313
<b>Synonyms:</b>	Epidermal growth factor, Urogastrone, URG

EGF is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF- $\alpha$  and VGF (vaccinia virus growth factor). Recombinant rat EGF is a 6.2 kDa globular protein containing 54 amino acid residues including 3 intramolecular disulfide-bonds.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	54
<b>MW:</b>	6.2 kDa

**Biological Activity:** The ED50 was determined by a cell proliferation assay using BALB/c 3T3 cells is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.



**AVOID REPEATED FREEZE AND THAW CYCLES!**