

Active Recombinant Rat Egf Protein

Cat. No. Egf-291E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Egf Protein without tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Epidermal Growth Factor, a low-molecular-weight polypeptide, is the founding member of the EGF-family of proteins. It can be found in platelets, macrophages, urine, saliva, etc. EGF acts by binding with high affinity to the Epidermal Growth Factor Receptor (EGFR) and stimulating downstream protein tyrosine kinase activity. This signal transduction cascade results in increased intracellular calcium levels and increased rates of glycolysis and protein synthesis. EGF stimulates the growth of many epidermal and epithelial tissues. Pharmaceutical drugs designed to inhibit EGFR have been used to treat certain types of cancer.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.1 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	~6 kDa, observed by reducing SDS-PAGE.
AA Sequence	MNSNTGCPPSYDGYCLNGGVCMYVESVDYVCNCVIGYIGERCQHRDLRWWKLR
Endotoxin	< 0.2 EU/μg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Rat Epidermal Growth Factor remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat Epidermal Growth Factor should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	Egf epidermal growth factor [<i>Rattus norvegicus</i>]
Official Symbol	Egf
Synonyms	EGF; epidermal growth factor; pro-epidermal growth factor;
Gene ID	25313
mRNA Refseq	NM_012842
Protein Refseq	NP_036974
UniProt ID	P07522

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