

Native Rat Egf

Cat. No. Egf-635R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Epidermal Growth Factor Rat purified from submandibular gland is a single, glycosylated, polypeptide chain having a molecular mass of 6.15 kDa. The EGF is purified by proprietary chromatographic techniques.
Species	Rat
Source	Adult Male Rat Submandibular Glands
Description	Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/ml) solution containing 0.01M sodium acetate buffer.
Purity	Greater than 99.0% as determined by RP-HPLC and SDS-PAGE.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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Stability	Lyophilized Epidermal Growth Factor Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage
Reconstitution	It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	Egf?epidermal growth factor [?Rattus norvegicus?(Norway rat)]
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
Chromosome Location	2q42-q43
Pathway	Cytokine-cytokine receptor interaction; EGFR1 Signaling Pathway; ErbB signaling pathway

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Function

calcium ion binding; epidermal growth factor receptor binding; growth factor activity

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