

## Datasheet for ABIN2017757 EGF Protein (AA 977-1029)



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### Overview

Quantity:	50 µg
Target:	EGF
Protein Characteristics:	AA 977-1029
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Characteristics:	ED50 < 0.1 ng/mL, measured by a cell proliferation assay using BALB/c 3T3 cells, corresponding to a specific activity of > 1.0x 10 <sup>7</sup> units/mg. AA 977-1029, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE and HPLC analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

### Target Details

Target:	EGF
Abstract:	<a href="#">EGF Products</a>
Background:	Epidermal Growth Factor (EGF) was originally discovered in crude preparations of nerve growth factor prepared from mouse submaxillary glands as an activity that induced early eyelid opening, incisor eruption, hair growth inhibition, and stunting of growth when injected into

## Target Details

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newborn mice. 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 mouse Epidermal Growth Factor (rmEGF) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 54 amino acids. A fully biologically active molecule, rmEGF is obtained by proprietary chromatographic techniques with a molecular mass of 6.2 kDa analyzed by reducing SDS-PAGE.

Synonyms: Epidermal Growth Factor, Urogastrone, URG

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Molecular Weight: 6.2 kDa, observed by reducing SDS-PAGE.

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UniProt: [P01132](#)

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Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Carbohydrate Metabolic Process](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [EGFR Downregulation](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

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Buffer: Lyophilized after extensive dialysis against PBS.

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Storage: -80 °C

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Storage Comment: Lyophilized recombinant mouse Epidermal Growth Factor (rmEGF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmEGF should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

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Expiry Date: 6 months