

## Epidermal Growth Factor (EGF), Human recombinant

CODE: 268-10048

### Product Specifications

Size:	100 ug, 500 ug, 1 mg, or 5 mg
Format:	EGF protein is lyophilized with no additives
Purity:	&ge,98% determined by SDS-PAGE, &ge,98% determined by HPLC
Endotoxin Level:	<0.1 ng/ug

### Source

Gene Symbols:	EGF
Species:	Human
Accession Number:	Q6QBS2
Protein Name & Synonyms:	Urogastrone, URG, EGF, epidermal growth factor

### Preparation

Expression System:	E.Coli
Molecular Weight (kDa):	Human EGF is a 6.2 kDa recombinant protein

### Introduction

Human epidermal growth factor (EGF) is also known as HOMG4 and URG, and is a growth factor that plays an important role in the regulation of cell growth, proliferation, and differentiation by binding to its receptor EGFR. Epidermal growth factor can be found in human platelets, macrophages, urine, saliva, milk, and plasma. EGF is the founding member of the EGF-family of proteins. Members of this protein family have highly similar structural and functional characteristics. All family members contain one or more repeats of the conserved amino acid sequence. The biological effects of salivary EGF include healing of oral and gastroesophageal ulcers, inhibition of gastric acid secretion, stimulation of DNA synthesis as well as mucosal protection from intraluminal injurious factors such as gastric acid, bile acids, pepsin, and trypsin and to physical, chemical and bacterial agents. Because of the increased risk of cancer by EGF, inhibiting it decreases cancer risk. Recombinant human EGF is a 6.2 kDa protein containing 53 amino acid residues. This recombinant human EGF has an N-terminal His-tag preceding the 53 amino acid sequence (MW = 8.5 kDa)

## Stability & Storage

Shipping

Gel pack

Storage/Stability

The protein may be stored for 12 months at -20°C

The products are furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.