EGF/Urogastrone/URG, Mouse, Recombinant

Cat. No. : PCK002

General Information

Synonyms	Pro-epidermal growth factor;Epidermal growth factor;EGF
Species	Mouse
Expression host	E.coli
Sequence	Asn977-Arg1029
Accession	P01132
Tag	6His tag at the C-terminus
Mol mass	7.2 kDa
Expiration date	12 months
Bio activity	Measured by its ability to inhibits the proliferation of human epithelial A431 cells. The ED50 for this effect is 2-20 ng/mL.

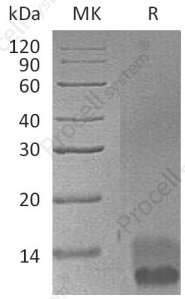
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

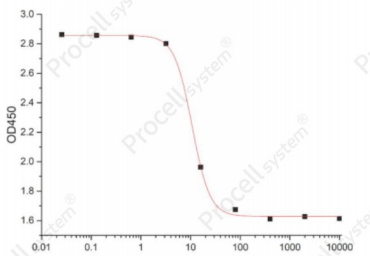
Background

EGF is a single-pass type I membrane protein,containing 8 LDL-receptor class B repeats and 9 EGF-like domains. EGF results in cellular proliferation, differentiation, and survival. EGF is a low-molecular-weight polypeptide first purified from the mouse submandibular gland, but since then found in many human tissues including submandibular gland, parotid gland. Salivary EGF, which seems also regulated by dietary inorganic iodine, also plays an important physiological role in the maintenance of oro-esophageal and gastric tissue integrity. 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.

SDS-PAGE



Bio activity



Measured by its ability to inhibits the proliferation of human epithelial A431 cells. The ED50 for this effect is 2-20 ng/mL.