



Recombinant Protein Technical Manual

Recombinant Mouse EGF Protein (His Tag)(Active)

RPES0571

Product Data:

Product SKU: RPES0571

Size: 10µg

Species: Mouse

Expression host: E. coli

Uniprot: P01132

Protein Information:

Molecular Mass: 7.2 kDa

AP Molecular Mass: 10 kDa

Tag: C-6His

Bio-activity: Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 0.15.5 ng/ml.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Pro-epidermal growth factor; Epidermal growth factor;EGF

Immunogen Information:

Sequence: Asn977-Arg1029

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.