Recombinant Rat Epidermal Growth Factor (rrEGF)
Catalog Number: 145-04

Description	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-α and VGF (vaccinia virus growth factor).
Synonyms	Urogastrone, URG
AA Sequence	MNSNTGCPPS YDGYCLNGGV CMYVESVDRY VCNCVIGYIG ERCQHRDLRW WKLR
Source	*Escherichia coli*
Molecular Weight	6.2 kDa, a single non-glycosylated polypeptide chain containing 54 amino acids, including 3 intramolecular disulfide-bonds.
Purity	>96% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED_{50} is < 0.1ng/ml, as determined by the proliferation of murine BALB/c 3T3 cells, corresponding to a specific activity of > 1×10^7 units/ mg.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.