

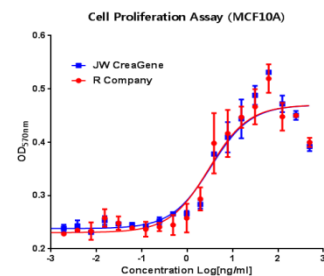
DATA SHEET

Product Information

Product Name	: Recombinant Human Epidermal Growth Factor (rhEGF)
Synonyms	: Pro-epidermal growth factor, Urogastrone
Description	: Epidermal growth factor (EGF) is a growth factor that stimulates cell growth, proliferation, and differentiation. Human EGF is a 6045 Da protein with 53 amino acid residues and three intramolecular disulfide bonds. EGF acts by binding with high affinity to EGFR on the cell surface. This stimulates ligand-induced dimerization, activating the intrinsic protein-tyrosine kinase activity of the receptor. The tyrosine kinase activity, in turn, initiates a signal transduction cascade that results in a variety of biochemical changes within the cell - a rise in intracellular calcium levels, increased glycolysis and protein synthesis, and increases in the expression of certain genes. (Ref. From Wikipedia)
NCBI Accession No.	: NM_001963.4
Amino acid sequence	: MNSDSECLSHDGYCLHDGVCMYIEALDKYACNCVVGYIGERCQYRDLKWWELR
Molecular Mass	: 6.33 kDa (54 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: JW-H010-0050, JW-H010-0100, JW-H010-0250, JW-H010-0500, JW-H010-1000
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Mouse, Rat, Monkey, Rabbit, Pig, Cow, Hamster

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 95 % by SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method
Biological Activity	: Determined by proliferation of MCF10A indicator cells. The ED50 is <100 pg/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ U/mg
Endotoxin	: Less than 0.5 EU/ μ g as determined by the LAL method
Formulation	: PBS (pH 7.4) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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