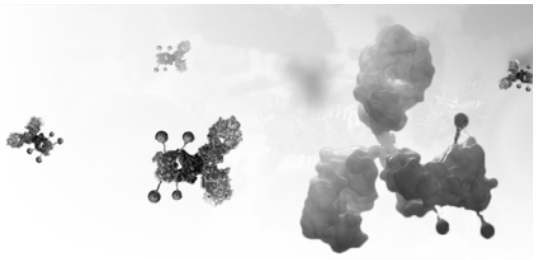

Human Epidermal Growth Factor (aa 53) (DAG300)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	RecombinantHuman Epidermal Growth Factor is a single, non-glycosylated, polypeptidechain containing 53 amino acids and having a molecular weight of 6,222 Da,was expressed in E. coli. The sequence of the first five N-terminal aminoacids was determined to b
Antigen Description	Epidermal growth factor or EGF is agrowth factor that plays an important role in the regulation of cell growth,proliferation, and differentiation by binding to its receptor EGFR. Human EGFis a 6045-Da protein with 53 amino acid residues and three intramoleculardisulfide bonds. EGF stimulates the growth of various epidermal andepithelial tissues in vivo and in vitro and of some fibroblasts in cellculture. Magnesiotropic hormone that stimulates magnesium reabsorption in therenal distal convoluted tubule via engagement of EGFR and activation of themagnesium channel TRPM6.
Species	Human
Conjugate	Unconjugated
Applications	The ED50calculated by the dose-dependent proliferation of murine Balb/c 3T3 cells(measured by 3Hthymidine uptake) is and lt;0.1ng/ml corresponding toa specific activity of 1 x 107 Units/mg. Each laboratory shoulddetermine an optimum working titer for use
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration 100µg/ml.Further dilutions can be made in other aqueou buffers.
Concentration	1 mg/ml (OD280nm, E0.1%= 2.858) (prior to lyophilization)
Buffer	Lyophilized from10mM Phosphate buffer, pH 7.4
Preservative	None
Storage	2-8°C short term, -20°C long term

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BACKGROUND

Introduction	EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6.
Keywords	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;

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