

Recombinant Human EGF (Epidermal Growth Factor)

Product 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). Recombinant Human EGF is a 6.2 kDa globular protein containing 53 amino acid residues, including 3 intramolecular disulfide bonds.

Typical Specifications

Species	Human
Expression	E. coli Cell Expressed
Activity	Typically ≤ 0.1 ng/mL ED ₅₀
Purity	$\geq 98\%$
Endotoxin	< 1.0 EU/ μ g
Molecular Mass	6.2 kDa
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells.

AA Sequence

NSDSECLPSH DGYCLHDGVC MYIEALDKYA
CNCVVG YIGE RCQYRDLKWW ELR

Reconstitution Buffer

Centrifuge the vial prior to opening.
Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Storage

For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

Limited Use and Restrictions

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