EGF Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: Epidermal Growth Factor, Urogastrone, URG

Cat. No.:

RBG30053020	(20 µg)
RBG30053100	(100 µg)
RBG30053250	(250 µg)

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-alpha and VGF (vaccinia virus growth factor). Recombinant Rat EGF is a 6.2 kDa globular protein containing 54 amino acid residues, including 3 intramolecular disulfide bonds.

Research topic

Cardiovascular disease, Coronary artery disease, Neural tissue markers, Oncology

Amino Acid Sequence

MNSNTGCPPS YDGYCLNGGV CMYVESVDRY VCNCVIGYIG ERCQHRDLRW WKLR

Source

E. coli

Purity

98%

Biological Activity

The ED_{50} was determined by a cell proliferation assay using BALB/c 3T3 cells is ? 0.1 ng/ml, corresponding to a specific activity of ? 1×10^{7} units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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