

Recombinant Human Epidermal Growth Factor

Cell Culture Tested

Product Code: TC228

Product Description :

Source: *E.Coli*

CAS No.: 62253-63-8

Synonyms: Urogastrone,URG

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 cerbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF- β and VGF (Vaccinia virus growth factor).

Recombinant human EGF is a 60KDa globular protein containing 53 amino acid residues including 3 intra molecular disulphide bonds.

Biological Activity: Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED50 is <0.1ng/ml, corresponding to a specific activity of >1 X10⁷ units/mg.

Directions :

Formulation:

Sterile filtered through 0.22 μ filter. Lyophilized with no additives.

Directions for use:

1. Centrifuge the vial prior to opening.
2. Reconstitute in water to a concentration of 0.1-1.0 mg/ml.
3. Do not vortex.
4. The solution can be stored at 2°-8°C for up to 1 week.
5. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (for e.g. 5% trehalose) and store in working aliquots at -20° to -80°C.

Quality Control:

Assay

NLT 98%

Endotoxin Content

NMT 1EU/ μ g (NMT 0.1ng/ μ g)

Cell Culture Test

Passes

Storage and Shelf Life:

The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 12 months at -20°C to -80°C

Use before expiry date given on the product label.

Note: Avoid repeated freezing and thawing.

Disclaimer :

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