

Epiregulin Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10126002	(2 µg)
Species: Human	RBG10126010	(10 µg)
Other names: EREG	RBG10126100	(100 µg)

Description

Epiregulin is an EGF-related growth factor that binds specifically to EGFR (ErbB1) and ErbB4, but not ErbB2 or ErbB3. It is expressed mainly in the placenta and peripheral blood leukocytes, as well as in certain carcinomas of the bladder, lung, kidney and colon. Epiregulin stimulates the proliferation of keratinocytes, hepatocytes, fibroblasts and vascular smooth muscle cells. It also inhibits the growth of several tumor-derived epithelial cell lines. Human Epiregulin is initially synthesized as a glycosylated 19.0 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce a 6.0 kDa mature secreted sequence. Recombinant Human Epiregulin is a 5.6 kDa monomeric protein, containing 50 amino residues, which corresponds to the mature secreted Epiregulin sequence.

Research topic

Growth hormone and factor-related products

Amino Acid Sequence

MVAQVSIKTC SSDMNGYCLH GQCIYLVDM S QNYRCCEVGY TGVRCEHFFL

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is ? 2.0 ng/ml, corresponding to a specific activity of ? 5×10⁵units/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

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