9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

EREG Human

Epiregulin Human Recombinant
CYK0144

Product Overview

Name	EREG Human

Description

Epiregulin Human Recombinant

Accession (Primary)	O14944

Synonyms

EREG, Epiregulin, ER.

Introduction

Epiregulin is part of the EGF family. Epiregulin functions as a ligand of EGFR, as well as a ligand of most members of the ERBB (v-erb-b2 oncogene homolog) family of tyrosine-kinase receptors.Epiregulin is expressed mostly in the placenta and peripheral blood leukocytes and in specific carcinomas of the bladder, lung, kidney and colon. Epiregulin stimulates the proliferation of keratinocytes, hepatocytes, fibroblasts and vascular smooth muscle cells. Epiregulin 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Epiregulin was lyophilized from 0.5mg/ml solution ciontaing 20mM PBS buffer pH-7.4 containing 20mM sodium chloride.

Stability

Lyophilized Epiregulin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Epiregulin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

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VAQVSITKC SSDMNGYCLH GQCIYLVDMS QNYCRCEVGY TGVRCEHFFL.

Biological Activity

Solubility

It is recommended to reconstitute the lyophilized Epiregulin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

EREG Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14944)