

EGF Receptor, Human Recombinant

CATALOG #: 7135-10 10 µg
7135-50 50 µg

ALTERNATE NAMES: ErbB1

SOURCE: CHO cells

PURITY: ≥ 95% by SDS-PAGE gel and HPLC analyses

MOL. WEIGHT: 97.5 kDa

ENDOTOXIN LEVEL: < 0.1 ng/µg of protein (<1EU/µg).

FORM: Lyophilized

FORMULATION: Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

RECONSTITUTION:
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. 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.

DESCRIPTION:
EGF Receptor (EGFR, ErbB1) is a transmembrane protein that exerts tyrosine kinase activity upon ligand induced activation. EGFR can be activated by binding EGF or at least six other structurally related protein ligands, including TGFα, HBEGF, Betacellulin (BTC), Amphiregulin, Epiregulin, and Epigen. Upon activation, EGFR initiates a signaling cascade which includes dimerization and internalization, tyrosine phosphorylation, DNA synthesis of target genes, and, ultimately, cell proliferation. EGFR signaling plays a role in the growth and differentiation of normal cells, but elevated EGFR activity is

correlated with the development and pathogenesis of certain cancers. Recombinant soluble human EGFR is a 621 amino acid glycoprotein comprising the extracellular domain of EGFR, and migrates at an apparent MW of 97.5 kDa by SDS-PAGE analysis under reducing conditions.

AMINO ACID SEQUENCE:
 LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN LEITYVQRNY
 DLSFLKTIQE VAGYVLIALN TVERIPLLENL QIIRGNMYYE NSYALAVLSN YDANKTGLKE
 LPMRNLQEIL HGAVRFSNNP ALCNVESIQW RDIVSSDFLS NMSMDFQNH
 GSCQKCDPSC PNGSCWGAGE ENCQKLTII CAQQCSGRRCR GKSPSDCCHN
 QCAAGCTGPR ESDCLVCRKF RDEATCKDTC PPLMLYNPTT YQMDVNPEGK
 YSFGATCVKK CPRNYVVDH GSCVRACGAD SYEMEEDGVR KCKKCEGPCR
 KVCNGIGIGE FKDSLSINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHT PPLDPQELDI
 LKTVKEITGF LLIQAWPENR TDLHAFENLE IIRGRKQHG QFSLAVVSLN ITSLGLRSLK
 EISDGDVIIS GNKNLCYANT INWKKLFGTS GQKTKIISNR GENSCATGQ
 VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG EPREFVENSE
 CIQCHPECLP QAMNITCTGR GPDNCIQCAH YIDGPHCVKT CPAGVMGENN
 TLVWKYADAG HVCHLCHPNC TYGCTGPGLE GCPTNGPKIPS

- RELATED PRODUCTS:**
- EGF, human recombinant (Cat. No. 4022-100, -500, -1000, -5000)
 - EGF, murine recombinant (Cat. No. 4023-100, -500, -1000, -5000)
 - EGF, rat recombinant (Cat. No. 4027-20, -100, -1000)
 - EGF Antibody (Cat. No. 5022-100)
 - EGF Antibody (Cat. No. 5023R-100)
 - EGFR Antibody (Cat. No. 3782-100)

FOR RESEARCH USE ONLY! Not to be used in humans.