

EGFR

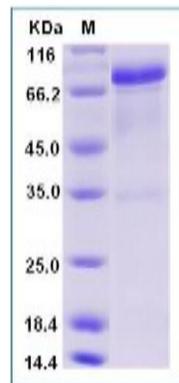
Recombinant Human EGFR / ErbB1 (Isoform VIII, Fc Tag)

Catalog No.	CRH754A-Fc CRH754B-Fc	Quantity:	50 µg 200 µg
Alternate Names:	Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1		
Description:	EGFR protein is type I transmembrane glycoprotein that binds a subset of the epidermal growth factor receptor family ligands including EGF, amphiregulin, TGF- α , betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently. The amino acids 25-378 of EGFR encodes the most common extracellular domain truncation mutant, termed EGFRvIII. It has been proved that EGFRvIII is relevant in a number of cancer types. EGFRvIII is tumor specific, and has not been found in normal tissues. EGFRvIII is highly tumorigenic, and can cause aggressive tumor phenotype, with increased invasion, proliferation, angiogenesis, and evasion of apoptosis. This EGFRvIII-mediated enhanced tumorigenicity combined with the lack of EGFRvIII expression in normal tissue makes it an ideal therapeutic targets		
UniProt ID:	P00533		
Accession Number:	NP_001333870.1		
Protein Construction:	A DNA sequence encoding the human EGFR (Met1-Lys375) was expressed with the Fc region of human IgG1 at the C-terminus.		
Source:	Baculovirus-Insect Cells		
Formulation:	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human EGFR consists of 589 amino acids and predicts a molecular mass of 65.1 kDa.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Leu 25		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		

Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C .
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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