

EGFR Protein, Human, Recombinant (His) V2

General Information

Synonyms:	HER1;epidermal growth factor receptor;ERBB;NISBD2;mENA;PIG61;ERBB1
Protein Construction:	Leu25-Ser645
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P00533-1
Molecular Weight:	70.19 kDa (Predicted); 80-110 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human EGFR, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human EGF, hFc Tag with the EC50 of 15.6 ng/ml determined by ELISA. (QC Test) Loaded Human EGF, hFc Tag on ProA-Biosensor can bind Human EGFR, His Tag with an affinity constant of 0.25 µM as determined in BLI assay (Gator® Prime). Loaded Human TGF-alpha, hFc Tag on ProA-Biosensor can bind Human EGFR, His Tag with an affinity constant of 0.27 µM as determined in BLI assay (Gator® Prime).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The epidermal growth factor receptor is a transmembrane protein that is a receptor for members of the epidermal growth factor family of extracellular protein ligands. The epidermal growth factor receptor is a member of the

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ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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