Human EGFR/HER1/ErbB1 (Fc Tag) recombinant protein

Catalog Number: 504095

General Information

Gene Name Synonym

Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1

Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Gly 645) of human EGFR (NP_005219) was fused with the Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its binding ability in a functional ELISA
. Immobilized recombinant human EGF at 10 μg/ml (100 μl/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Leu 25

Molecular Mass

The recombinant human EGFR/Fc chimera is a homodimeric protein. The reduced monomer consists of 860 amino acids and has a calculated molecular mass of 95 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 130-140 kDa protein in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

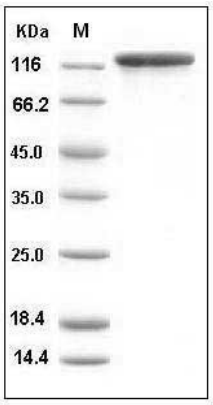
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human EGFR / HER1 / ErbB1 Protein (Fc Tag) SDS-PAGE