Human EGFR / HER1 / ErbB1 Protein (Isoform vIII, His Tag)

Catalog Number: 29662-H08B

General Information

Gene Name Synonym:
ERBB; ERBB1; HER1; mENA; NISBD2; PIG61

Protein Construction:
A DNA sequence encoding the human EGFRvIII (NP_001333870.1) (Met1-Lys375) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin:
< 1.0 EU per µg 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 EGFRvIII consists of 359 amino acids and predicts a molecular mass of 39.3 kDa.

Formulation:
Lyophilized from sterile PBS, pH 6.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20 ℃ to -80 ℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF 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.

References