

Recombinant Human HER1/ERBB1/EGFR (668-1210) Protein

Catalog No.: RP02943LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1956	P00533

Tags

N-His□GST

Synonyms

EGFR; ERBB; ERBB1; HER1; NISBD2; PIG61; mENA; epidermal growth factor receptor;ERBB;ERBB1;HER1;NISBD2;PIG61;mENA

Product Information

Source	Purification
Baculovirus-Insect Cells	> 75% by SDS-PAGE.

Calculated MW	Observed MW
89.1 kDa	89 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4.

Reconstitution

Background

The EGFR (epidermal growth factor receptor) subfamily of receptor tyrosine kinases comprises four members: EGFR (also known as HER-1, ErbB1, or ErbB), ErbB2 (Neu, HER-2), ErbB3 (HER-3), and ErbB4 (HER-4). EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-α, betacellulin, etc. The human EGFR cDNA encodes a 1210 amino acid (aa) precursor with a 24aa signal peptide, a 621 aa extracellular domain (ECD), a 23 aa transmembrane segment, and a 542 aa cytoplasmic domain. EGFR signaling has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently, which is overexpressed in a wide variety of tumors and is the target of several anti-cancer drugs.

Basic Information

Description

Recombinant Human ERBB1/HER1/EGFR (668-1210) Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met668-Ala1210) of Human ERBB1/HER1/EGFR (668-1210) (Accession #NP_005219.2.) fused with an 6xHis, GST tag at the N-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human EGF at 0.5 μg/mL (100 μL/well) can bind Recombinant human EGFR with a linear range of 0.3-2.5 μg/mL.

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

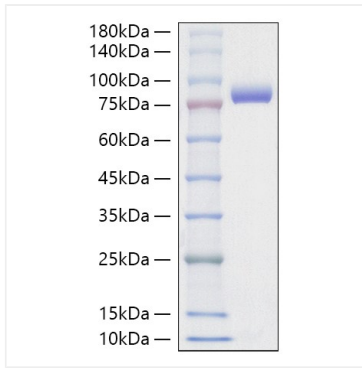
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Validation Data



Recombinant Human EGFR (aa668-1210)
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 90-100
kDa.