

# Recombinant Human EGFR/ErbB1 Protein (aa 668-1210, His&GST Tag)



Catalog Number:PKSH030428

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

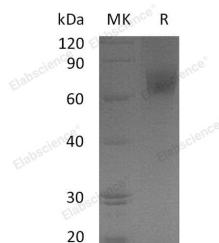
## Description

<b>Synonyms</b>	ERBB;ERBB1;HER1;mENA;NISBD2;PIG61
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 668-Ala 1210
<b>Accession</b>	NP_005219
<b>Calculated Molecular Weight</b>	89.1 kDa
<b>Tag</b>	N-His-GST
<b>Bioactivity</b>	The specific activity was determined to be 105 nmol/min/mg using Poly(Glu:Tyr) 4:1 as substrate.

## Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as sterile solution of 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4
<b>Reconstitution</b>	Not Applicable

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

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- $\alpha$ ; 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.

## For Research Use Only

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