



Recombinant Human EGFR Protein [His] (DAGC301)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the extracellular domain (Met 1-Ser 645) of human EGFR (NP_005219) was expressed with a C-terminal polyhistidine tag.
Species	Human
Purity	> 95 % as determined by SDS-PAGE
Conjugate	His
Applications	SDS-PAGE, ELISA
Predicted N terminal	Leu 25
Molecular Weight	The recombinant human EGF receptor consists of 630 amino acids and has a calculated molecular mass of 69.8 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 110 kDa protein in SDS-PAGE under reducing conditions.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human EGFR at 10 µg/ml can bind human EGF with a linear range of 3.2-400 ng/ml.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Format	Lyophilized
Size	10 µg, 20 µg, 100 µg, 1 mg
Buffer	Lyophilized from sterile PBS, pH 7.4
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

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.

Keywords

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