

EGFR Protein, Human, Recombinant (His), PE-Labeled

General Information

Synonyms:	ERBB;HER1;NISBD2;PIG61;ERBB1;mENA;ERRP
Protein Construction:	A DNA sequence encoding the Human EGFR (NP_005219.2) (Met1-Ser645) was expressed with a polyhistidine tag at the C-terminus. The protein is site-specifically labeled with PE (Excitation = 495-566 nm, Emission Max. = 575 nm).
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P00533
Molecular Weight:	72 kDa (predicted)

QC Testing

Biological Activity:	<p>1. Flow cytometric analysis of anti-EGFR CAR expression. 293 cells were lentivirally transduced with anti-EGFR CAR. Flow cytometric analysis was performed with a negative control protein and EGFR Protein, Human, Recombinant (His), PE-Labeled (Cat#TMPY-06991), respectively. Non-transduced 293 cells were used as a control (left).
</p> <p>2. Binding activity of PE-conjugated EGFR protein to PBMC cells. PBMC cells were stained with anti-CD3 antibody and EGFR Protein, Human, Recombinant (His), PE-Labeled (Cat#TMPY-06991) and detected by flow cytometry. PBMC cells stained with anti-CD3 antibody were used as a control (left).</p>
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	This product is Lyophilized from sterile PBS, 0.2% BSA, pH 7.4. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:	Please refer to the lot-specific COA.
Stability & Storage:	Twelve months from date of receipt at -20°C to -70°C in lyophilized form and 3 months at -70°C under sterile conditions after reconstitution. Protect from prolonged exposure to light and avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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-α, betacellulin, etc. EGFR

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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. Cancer Immunotherapy/Immune Checkpoint Immunotherapy/Targeted Therapy

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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