

Datasheet for ABIN7195588

EGFR Protein (Fc Tag)

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	EGFR
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EGFR protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human EGFR/ErbB1 Protein (Fc Tag)(Active)
Sequence:	Met 1-Gly 645
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Gly 645) of human EGFR (NP_005219) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized recombinant human EGF at 10 µg/ml (100 µl/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.

Target Details

Target:	EGFR
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Target Details

Alternative Name:	EGFR/ErbB1 (EGFR Products)
Background:	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 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. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: ERBB;ERBB1;HER1;mENA;NISBD2;PIG61
Molecular Weight:	95 kDa
NCBI Accession:	NP_005219
Pathways:	NF-kappaB Signaling , RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Stem Cell Maintenance , Hepatitis C , Positive Regulation of Response to DNA Damage Stimulus , Interaction of EGFR with phospholipase C-gamma , Thromboxane A2 Receptor Signaling , EGFR Downregulation , S100 Proteins

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4 1. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. 2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hard copy of CoA.
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.