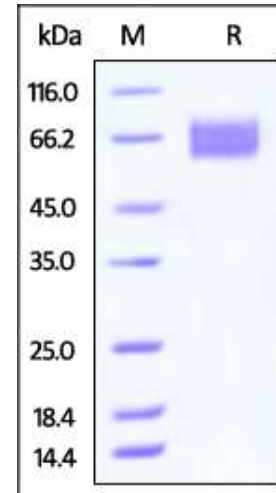


Human CellExp™ EGFRvIII, human recombinant

CATALOG NO:	P1082-10	10 µg
ALTERNATE NAMES:	EGFR, ERBB, ERBB1, HER1, PIG61, mENA	
SOURCE:	HEK 293 cells (Leu 25 - Ser 645), while the amino acids 30-297 are missing	
PURITY:	> 95% by SDS – PAGE	
MOL. WEIGHT:	This protein is fused with polyhistidine tag at C terminus and the protein has a calculated MW of 40.5 kDa. The predicted N-terminus is Leu 25. The protein migrates as 60-70 kDa under reducing (R) condition on SDS-PAGE gel due to glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -70°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -80°C.	
DESCRIPTION:	The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer. The type III EGF deletion-mutant receptor (EGFRvIII) is the most common mutation and was first identified in primary human glioblastoma tumors; EGFR gene amplification is correlated with the structural rearrangement of the gene. The EGFRvIII gene has an in-frame deletion of 801 base pairs, corresponding to exons 2–7 in the mRNA, resulting in the deletion of amino acids 30-297 in the extracellular domain and the generation of a glycine at the fusion point.	



The purity of human EGFRvIII was determined by SDS-PAGE under reducing (R) condition and staining overnight with Coomassie Blue.

RELATED PRODUCT:

- Human CellExp™ CTLA4/CD152, human recombinant (**Cat. No. 7476-20, 100**)
- Human CellExp™ CSF1R / CD115 / CD6, human recombinant (**Cat. No. 7505-20**)
- Human CellExp™ M-CSF R/CSF1R/CD115, mouse recombinant Fc tag (**Cat. No. P1079-10, -50**)
- Human CellExp™ CD160/BY55, human recombinant (**Cat. No. 7386-10, -50**)
- Human CellExp™ CD166/ ALCAM, human recombinant (**Cat. No. 7437-10, -50**)
- Human CellExp™ CD172A / SIRP, human recombinant (**Cat. No. 7506-10, -50**)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (**Cat. No. 7370-10, -50**)
- Human CellExp™ CD47, human recombinant (**Cat. No. 7385-10, -50**)

FOR RESEARCH USE ONLY! Not to be used on humans.