

## EGFR vIII Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P70608
<b>Synonyms:</b>	Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1; EGFR; ERBB; ERBB1; HER1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_001333870 (L25-S378)
<b>Gene ID:</b>	1956
<b>Molecular Weight:</b>	90-120 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L E E K K G N Y V V   T D H G S C V R A C   G A D S Y E M E E D   G V R K C K K C E G P C R K V C N G I G   I G E F K D S L S I   N A T N I K H F K N   C T S I S G D L H I L P V A F R G D S F   T H T P P L D P Q E   L D I L K T V K E I   T G F L L I Q A W P E N R T D L H A F E   N L E I I R G R T K   Q H G Q F S L A V V   S L N I T S L G L R S L K E I S D G D V   I I S G N K N L C Y   A N T I N W K K L F   G T S G Q K T K I I S N R G E N S C K A   T G Q V C H A L C S   P E G C W G P E P R   D C V S C R N V S R G R E C V D K C N L   L E G E P R E F V E   N S E C I Q C H P E   C L P Q A M N I T C T G R G P D N C I Q   C A H Y I D G P H C   V K T C P A G V M G   E N N T L V W K Y A D A G H V C H L C H   P N C T Y G C T G P   G L E G C P T N G P   K I P S           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The EGFRvIII protein is a transmembrane glycoprotein belonging to the protein kinase superfamily and serves as a receptor for members of the epidermal growth factor family. Operating as a cell surface protein, EGFRvIII binds to epidermal growth factor, initiating receptor dimerization and tyrosine autophosphorylation, thereby promoting cell proliferation. Mutations in
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this gene are associated with lung cancer. Furthermore, EGFRvIII is implicated as a component of the cytokine storm, contributing to the severity of Coronavirus Disease 2019 (COVID-19) caused by infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided by RefSeq, Jul 2020]

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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