

## Recombinant Human EGFR Protein, C13 and N15 Labeled

Cat. No. EGFR-553H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	C13 and N15 Labeled Recombinant Human EGFR Protein, was expressed in HEK293 without tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1210
<b>Description</b>	The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	69.5 kDa
<b>AA Sequence</b>	MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTLGLTFEDHFLSLQRMFN NCEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLLENLQIIRGNMYYEN SYALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LSNMSMDFQNHGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQCSGRRCRGK  
 SPSDCCHNQCAAGCTGPRESCLVCRKFRDEATCKDTCPLMLYNPTTYQMDVNP  
 EGKYSFGATCVKKCPRNYVVDHGSVCVRACGADSYEMEEDGVRKCKKCEGPCRK  
 VCNGIGIGEFKDSLSINATNIKHFKNCTSIGDLHILPVAFRGDSFTHTPPLDPQELDIL  
 KTVKEITGFLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLK  
 EISDGDVIISGNKNLCYANTINWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSP  
 EGCWGPEPRDCVSCRNVSRGRECVDKCNLLEGEPRFVENSECIQCHPECLPQA  
 MNITCTGRGPDNCIQCAHYIDGPHCVKTCAPAGVMGENNTLVWKYADAGHVCHLCH  
 PNCTYGCTGPGLEGCPNGPKIPSIATGMVGAALLLVVALGIGLFMRRRHIVRKRRL  
 RRLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEK  
 VKIPVAIKELREATSPKANKEILDEAYVMASVDNPHVCRLGICLTSTVQLITQLMPFG  
 CLLDYVREHKDNIGSQYLLNWCVQIAKGMNYLEDRLVHRDLAARNVLVKTPQHVKI  
 TDFGLAKLLGAEKEYHAEGGKVPIKWMALESILHRIYTHQSDVWSYGVTVWELMTF  
 GSKPYDGIPASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELIIEFSK  
 MARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMDDVDADEYLIPQQGFFS  
 SPSTSRTPLLSSLSATSNNSTVACIDRNLQSCPIKEDSFLQRYSSDPTGALTEDSID  
 DTFLPVPEYINQSVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYL  
 NTVQPTCVNSTFDSPAHWAKGSHQISLDNPDYQQDFFPKEAKPNGIFKGSTAENA  
 EYLRVAPQSSEFIGA

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).  
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

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<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	EGFR epidermal growth factor receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	EGFR
<b>Synonyms</b>	EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) , ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;
<b>Gene ID</b>	1956
<b>mRNA Refseq</b>	NM_005228
<b>Protein Refseq</b>	NP_005219
<b>MIM</b>	131550
<b>UniProt ID</b>	P00533

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