

## DATASHEET

Version 20181206

# EGF R, His, Human

**Cat. No.:** Z03202-50

**Size:** 50.0 ug

**Synonyms:** ERBB, ERBB1, HER1

### Description:

EGF Receptor, also known as ERBB, ERBB1 and HER1, is a type I transmembrane protein belonging to the tyrosine protein kinase family. It binds to a subset of EGF family ligands, including EGF, TGF- $\alpha$ , amphiregulin, EPGN, BTC, EREG and HBEGF. Ligand binding triggers receptor homo- or hetero-dimerization, which induces downstream kinase activation, tyrosine phosphorylation and cell signaling. EGF receptor signaling has been shown to regulate cell proliferation, differentiation, motility and apoptosis.

### Amino Acid Sequence:

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00001 LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN
00041 LEITYVQRNY DLSFLKTIQE VAGYVLIALN TVERIPLNL
00081 QIIRGNMYE NSYALAVLSN YDANKTGLKE LPMRNLQEIL
00121 HGAVRFSNNP ALCNVEISQW RDIVSSDFLS NMSMDFQNH
00161 GSCQKCDPSC PNGSCWGAGE ENCQKLTKII CAQQCSGR
00201 GKSPSDCCHN QCAAGCTGPR ESDCLVCRKF RDEATCKDTC
00241 PPLMLYNPTT YQMDVNPEGK YSFGATCVKK CPRNYVVDH
00281 GSCVRACGAD SYEMEEDGVR KCKKCEGPCR KVCNGIGIGE
00321 FKDSLSINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHT
00361 PPLDPQELDI LKTVKEITGF LLIQAWPENR TDLHAFENLE
00401 IIRGRKQHG QFSLAVVSLN ITSLGLRSLK EISDGDVIIS
00441 GNKNLCYANT INWKKLFGTS GQKTKIISNR GENSCKATGQ
00481 VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG
00521 EPREFVENSE CIQCHPECLP QAMNITCTGR GPDNCIQAHA
00561 YIDGPHCVKT CPAGVMGENN TLWKYADAG HVCHLCHPNC
00601 TYGCTGPGLG GCPTNGPKIP SHHHHHH
  
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**Source:** CHO

**Species:** Human

**Biological Activity:**  $ED_{50} < 1 \mu\text{g/ml}$ , measured in a bioassay using 3T3 cells in the presence of 25 pg/ml human EGF.

**Molecular Weight:** 95-115 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu\text{g/ml}$ .

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu\text{g}$ , determined by LAL method.

**Storage:** Lyophilized recombinant human EGF Receptor, His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human EGF Receptor, His should be stable up to 1 week at 4°C or up to 2 months at -20°C.