

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant EGF R, His, Human

Catalog Number: BK0195-1mg

Source: CHO

Quantity: 1mg

### 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.

### Molecular Weight:

95-115 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED<sub>50</sub> < 1  $\mu$ g/ml, measured in a bioassay using 3T3 cells in the presence of 25 pg/ml human EGF.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

LEEKVCQGTSNKLTLQGLTFEDHFLSLQRM-  
FNNCEVVLGNLEI-  
TYVQRNYDLSFLKTIQEVAGYVLIAL-  
NTVERIPLNQLIIRGNMYYENSYA-  
LAVLSNYDANKTGLKELPMRNLQEIL-  
HGAVRFSNNPALCNVESIQWRDIVSSDFLS-  
NMSMDFQNHGSCQKCDPSCPNGSCW-  
GAGEENCQKLTKIICAQQCSGRCRGK-  
SPSDCCHNQCAAGCTGPRESDCLVCRK-

FRDEATCKDTCPLMLYNPTTYQMDVNPEGKYS  
LYNPTTYQMDVNPEGKYS-  
FGATCVKKCPRNYVVTDHGSCVRAC-  
GADSYEMEEEDGVRKCKKCEGPCRKVCNGI-  
GIGEFKDSLSINATNIKHFKNCTSIGDLHIL-  
PVAFRGDSFTHTPPLDPQELDILKTVKEITGFL-  
LIQAWPENRTDLHAFEN-  
LEIIRGRTKQHGGQFSLAV-  
VSLNITSLGLRSLKEISDGDVVISGKNKLCY-  
ANTINWKKLFGTSGQKTKIISNRGENSCK-  
ATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGR  
ECVDKCNLLEGEPPREFVENSECIQCHPE-  
CLPQAMNITCTGRGPDNCIQCAHY-  
IDGPHCVKTCPAGVMGENNTLVWKYADAGHVC  
HLCHPNCTYGCTGPGLEGCPNTPGPKIP-  
SHHHHHH

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant human EGF Receptor, His-remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, human EGF Receptor, His should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

### Usage:

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