

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant EGF R, His, Human

Catalog Number: BK0195-50µg

Source: CHO

Quantity: 50µg

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- α , 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:

ED₅₀ < 1 µg/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:

LEEKKVCQGTSNKLTLQGLTFEDHFLSLQRM-
FNNCEVVLGNLEI-
TYVQRNYDLSFLKTIQEVAGYVLIAL-
NTVERIPLNQLIIRGNMYEYSYA-
LAVLSNYDANKTGLKELPMRNLQEIL-
HGAVRFSNNPALCNVESIQWRDIVSSDFLS-
NMSMDFQNHGSCQKCDPSCPNGSCW-
GAGEENCQKLTKIICAQQCSGRCRGK-
SPSDCCHNQCAAGCTGPRESDCLVCRK-

FRDEATCKDTCPLMLYNPTTYQMDVNPEGKYS
LYNPTTYQMDVNPEGKYS-
FGATCVKKCPRNYVVTDHGSCVRAC-
GADSYEMEEEDGVRKCKKCEGPCRKVCNGI-
GIGEFKDSLSINATNIKHFNCTSIGDLHIL-
PVAFRGDSFTHTPPLDPQELDILKTVKEITGFL-
LIQAWPENRTDLHAFEN-
LEIIRGRTKQHGQFSLAV-
VSLNITSLGLRSLKEISDGDVVISGKNKLCY-
ANTINWKKLFGTSGQTKIISNRGENSCK-
ATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGR
ECVDKCNLLEGEPPREFVENSECIQCHPE-
CLPQAMNITCTGRGPDNCIQCAHY-
IDGPHCVKTCPAGVMGENNTLVWKYADAGHVC
HLCHPNCTYGCTGPGLEGCPNTPGPKIP-
SHHHHHH

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human EGF Receptor, His-remains stable up to 6 months at -80 °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.

Usage:

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