TECHNICAL DATA SHEET

Recombinant Human EGFR (Carrier-free)

Catalog Number: 21-7103

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human EGFR (Carrier-free)

DESCRIPTION

The EGF Receptor (EGFR) is one of the four members of the EGFR subfamily of receptor tyrosine kinases. It is a transmembrane glycoprotein expressed on the cell surface and is a receptor for EGF and at least six other structurally related ligands including amphiregulin, betacellulin and TGF-alpha. Binding of EGFR to one of these ligands induces receptor dimerization and tyrosine autophosphorylation, leading to cell proliferation. It is involved in regulation of other functions including differentiation, survival, motility and apoptosis. EGFR has been found to be overexpressed in many tumors.

MOLECULAR MASS

Recombinant soluble Human EGFR comprises the extracellular domain of EGFR and is 621 amino acids in length. Under reducing conditions it migrates at approximately 97.5 kDa by SDS-PAGE analysis.

AMINO ACID SEQUENCE

LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN LEITYVQRNY DLSFLKTIQE VAGYVLIALN TVERIPLENL QIIRGNMYYE NSYALAVLSN YDANKTGLKE LPMRNLQEIL HGAVRFSNNP ALCNVESIQW RDIVSSDFLS NMSMDFQNHL GSCQKCDPSC PNGSCWGAGE ENCQKLTKII CAQQCSGRCR GKSPSDCCHN QCAAGCTGPR ESDCLVCRKF RDEATCKDTC PPLMLYNPTT YQMDVNPEGK YSFGATCVKK CPRNYVVTDH GSCVRACGAD SYEMEEDGVR KCKKCEGPCR KVCNGIGIGE FKDSLSINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHT PPLDPQELDI LKTVKEITGF LLIQAWPENR TDLHAFENLE IIRGRTKQHG QFSLAVVSLN ITSLGLRSLK EISDGDVIIS GNKNLCYANT INWKKLFGTS GQKTKIISNR GENSCKATGQ VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG EPREFVENSE CIQCHPECLP QAMNITCTGR GPDNCIQCAH YIDGPHCVKT CPAGVMGENN TLVWKYADAG HVCHLCHPNC TYGCTGPGLE GCPTNGPKIP S

SOURCE	APPLICATIONS	PURITY	STORAGE
CHO cells	Bioassay	95 %	-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Testing in progress.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Cancer, Differentiation, Inflammation, Neurobiology, Stem Cells, Wound Healing

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Xu YH, Ishii S, Clark AJL, Sullivan M, Wilson RK, Ma DP, Roe BA, Merlino GT and Pastan I. 1984. Nature. 309: 806-810. Yarden Y and Sliwkowski MX. 2001. Nat Rev Mol Cell Biol. 2(2): 127-137. Singh AB and Harris RC. 2005. Cell Signal. 17(10): 1183-1193. Shilo BZ. 2005. Development. 132: 4017-4027. Schneider MR and Wolf E. 2009. J Cell Physiol. 218(3): 460-466.