

Overview

Synonyms	ErbB1, HER1
Description	<p>Epidermal Growth Factor Receptor (EGFR) belongs to a family of tyrosine kinase receptors including Human EGF Receptors (HER) 2, 3, and 4 which all play important roles in cell growth and differentiation. Their primary ligands are EGF, Heparin-Binding EGF and Transforming Growth Factor \pm. Upon ligand binding, EGFR undergoes asymmetric dimerization, composed of an “activator” and a “receiver”. EGFR and its family members are dysregulated in numerous cancers. In particular, EGFR is overexpressed in many epithelial solid tumors. Evidence suggests EGFR is an excellent target for pharmacologic intervention in Non Small Cell Lung Cancer (NSCLC) due to its high level of expression and prominent role in tumor growth and metastasis.</p> <p>Recombinant human Epidermal Growth Factor Receptor (rhEGFR) with C-terminal 6xHis-tag produced in Sf9 insect cells is a single glycosylated polypeptide chain containing 627 amino acids. rhEGFR has a molecular mass of 80kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	P00533
Species	Human
Source	<i>Sf9 insect cells</i>
Biological Activity	Bioassay data are not available.
Sequence	<pre> LEEKKVCQGT SNKLTQLGTF EDHFLSLQRM FNNCEVVLGN LEITYVQRNY DLSFLKTIQE VAGYVLIALN TVERIPLLENL QIIRGNMYYE NSYALAVLSN YDANKTGLKE LPMRNLQEIL HGAVRFSNNP ALCNVEIQW RDIVSSDFLS NMSMDFQNH GSCQKCDPSC PNGSCWGAGE ENCQKLTKII CAQQCSGR GKSPSDCCHN QCAAGCTGPR ESDCLVCRKF RDEATCKDTC PPLMLYNPTT YQMDVNPEGK YSFGATCVKK CPRNYVVDH GSCVRACGAD SYEMEEEDGVR KCKKCEGPCR KVCNGIGIGE FKDLSLSINAT NIKHFKNCTS ISGDLHILPV AFRGDSFTHT PPLDPQELDI LKTVKEITGF LLIQAWPENR TDLHAFENLE IIRGRTKQHG QFSLAVVSLN ITSLGLRSLK EISDGDVVIS GNKNLCYANT INWKKLFGTS GQKTKIISNR GENSKATGQ VCHALCSPEG CWGPEPRDCV SCRNVSRGRE CVDKCNLLEG EPREFVENSE CIQCHPECLP QAMNITCTGR GPDNCIQCAH YIDGPHCVKT CPAGVMGENN TLVWKYADAG HVCHLCHPNC TYGCTGPGLE GCPTNGPKIP SHHHHHH </pre>

Properties

Measured Molecular Weight	80kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μ g/mL.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant human Epidermal Growth Factor Receptor (rhEGFR) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhEGFR remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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