

## 32-9002: Recombinant Human Receptor Tyrosine-protein Kinase ErbB-4/ErbB4/Her4 (C-6His)

**Gene :** ERBB4  
**Gene ID :** 2066  
**Uniprot ID :** Q15303

### Description

Source: Human Cells.  
MW :70.5kD.

Recombinant Human Receptor Tyrosine-protein Kinase ErbB-4 is produced by our Mammalian expression system and the target gene encoding Gln26-Arg649 is expressed with a 6His tag at the C-terminus. ErbB4 is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. ErbB4 is expressed in normal skeletal muscle, heart, pituitary, brain and several breast carcinomas. ErbB4 ligands include the neuregulins, beta-cellulin and heparin-binding EGF-like growth factor (HBEGF). Monomeric ErbB4 binds its ligands with low affinity. Several ErbB4 isoforms exist. Two of these differ in the presence of juxtamembrane extracellular sequences which regulate the ability of TACE (TNF $\alpha$  converting enzyme) to proteolytically cleave ErbB4 from the cell surface. These isoforms exhibit tissuespecific expression. Another isoform lacks the phosphoinositide 3kinase activation sequence present in the ErbB4 cytoplasmic domain. ErbB4 appears to play important roles in neuronal development, development of the heart and cancer.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** QSVCAGTENKLSLSDLEQQYRALRKYENCEVVMGNLEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLPLE  
NLRIRGTKLYEDRYALAIFLNRYKDGNGFLQELGLKNLTELNGGVYVDQNKFLCYADTIHWQDIVRNPWPSNL  
TLVSTNGSSGCRCHKSCGRGWPTENHCQTLTRTVCAEQCDGRCYGPVSDCCCHRECAGGCSGPKDTD  
CFACMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNAKYTYGAFVCVKCPHNFVVDSSSCVRACPSSKMEVEE  
NGIKMCKPCTDICPKACDGIGTGLMSAQTVDSSNIDKFINCTKINGNLIFLVTGIHGDYPYNAIEAIDPEKLNVFRT  
VREITGFLNIQSWPPNMTDFSVFNLVTIGGRVLYSGLSLILKQQGITSLQFQSLKEISAGNIYITDNSLCCYYHTI  
NWTTLFSTINQRIVIRDNRKAENCTAEGMVCNHLCSDDGCGWGPDPDQCLSCRRFSRGRICIESCNLYDGEFRE  
FENGSIQVECDPQCEKMEDGLLTCGPGPDNCTKCSHFKDGPNCVEKCPDGLQGANSFIFKYADPDRECHPC  
HPNCTQGCNGPTSHDCIYYPWTGHSTLPQHARHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.