

Active Recombinant Mouse V-Erb-A Erythroblastic Leukemia Viral Oncogene Homolog 4 (avian)

Cat. No. Erbb4-473M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant MouseErbb4 protein was expressed in Murine myeloma cell line, NS0-derived. Gln26 - Val657.
Species	Mouse
Source	Mammalian Cells
ProteinLength	26-657 a.a.
Description	Erbb4, also called Her4 (human epidermal growth factor receptor 4) in humans, is a type I transmembrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors named for a viral oncogene. ErbB family members serve as receptors for the EGF family of growth factors. Mouse Erbb4 contains a 25 amino acid (aa) signal sequence, a 626 aa extracellular domain (ECD), a 24 aa transmembrane region, and a 617 aa cytoplasmic domain.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminalSequence	Gln26 predicted
MolecularWeight	97.5 kDa (monomer)
Activity	Measured by its ability to inhibit the biological activity of Neuregulin1β1 on MCF7 human breast adenocarcinoma cells. Karey, K.P. et al. (1988) Cancer Research

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

48:4083. The ED50 for this effect is typically 3 12µg/mL in the presence of 10 ng/mL of rhNRG1 β1.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

Purity >85%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 500µg/mL in sterile PBS.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name [ErbB4 v-erb-a erythroblast leukemia viral oncogene homolog 4 \(avian\) \[Mus musculus \]](#)

Official Symbol [ErbB4](#)

Synonyms ErbB4; v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian); Her4; c-erbB-4; receptor tyrosine-protein kinase erbB-4; avian erythroblastosis oncogene B 4; proto-oncogene-like protein c-ErbB-4

Gene ID [13869](#)

mRNA Refseq [NM_010154](#)

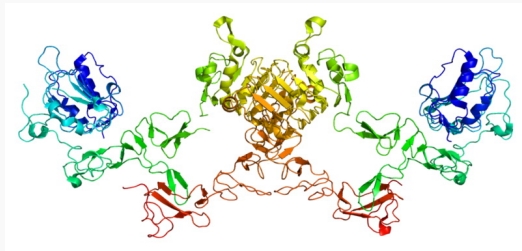
Protein Refseq [NP_034284](#)

UniProt ID [O88459](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	1 C3; 135.1 cM
Pathway	Calcium signaling pathway; Endocytosis; ErbB signaling pathway
Function	ATP binding; epidermal growth factor receptor binding; kinase activity; nucleotide binding; protein binding; protein homodimerization activity; protein kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transcription regulatory region DNA binding; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity
PDB rendering based on 2ahx.	

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA