

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, alsocalled Her4 (human epidermal growth factor receptor 4) in humans, is a type Itransmembrane glycoprotein that is a member of the ErbB family of tyrosinekinase receptors named for a viral oncogene. ErbB family members serve asreceptors for the EGF family of growth factors. Mouse Erbb4 containsa 25 amino acid (aa) signal sequence, a 626 aa extracellular domain (ECD), a24 aa transmembrane region, and a 617 aa cytoplasmic domain.
Form	Lyophilized from a0.2 µm filtered solution in PBS.
N-terminalSequence	Gln26 predicted
MolecularWeight	97.5 kDa (monomer)
Activity	Measured by itsability to inhibit the biological activity of Neuregulin1β1 on MCF7 humanbreast 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 3.12 µg/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 500 µg/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 B4; proto-oncogene-like protein c-ErbB-4

Gene ID [13869](#)

mRNA Refseq [NM_010154](#)

Protein Refseq [NP_034284](#)

UniProt ID [O88459](#)

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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.	