

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

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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](#)

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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.	