

# Recombinant Human V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (avian), Thyrodoxin Tagged and His Tagged

**Cat. No.** ERBB3-5193H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Tyrosine Kinase ERBB3 (extracellular domain) is a single, non-glycosylated, fusion polypeptide chain containing Thyrodoxin Tag and His tag. The protein consists of 190 amino acids (Met1- Cys190). ERBB3 is expressed in E. coli, MW 34kDa.                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Receptortyrosine-protein kinase ERBB3 is an enzyme that in humans is encoded by the ERBB3 gene. This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. |
| <b>Form</b>             | Liquid. Each mg of protein contains 1 mg aluminum hydroxide + 10 mM arginine + 10 mM sodium chloride + 20 mM sodium phosphate buffer + 5 mM potassium phosphate.                                                                                                                                            |
| <b>Purity</b>           | > 95.0% as determined by RP-HPLC and SDS-PAGE analyses.                                                                                                                                                                                                                                                     |
| <b>Sequence</b>         | MRANDALQVLGLLFLSLARGSEVGNLSQAVCPGTLNGLSVTGDAENQYQTLY<br>KLYERCEVVMGNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLPLP<br>NLRVVRGTQVYDGKFAIFVM LNYNTNSSHALRQLRLTQLTEILSGGVYIE                                                                                                                                           |

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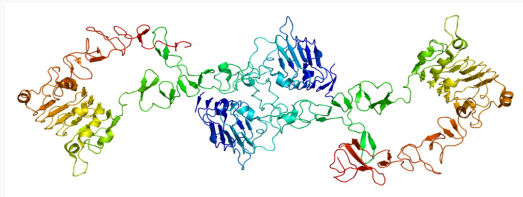
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|                            |                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | KNDKLCHMDTIDWRDIVRDR DAEIVVKDNG RSCPPCHEVC                                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b>    | 34 kDa                                                                                                                                                                                                                                                                                                                                   |
| <b>Biological Activity</b> | Determined by its ability to postpone tumor emergence time of spontaneous breast cancer in FVB/N transgenic mice and inhibit the development of tumor and growth of in situ transplanted breast cancer in FVB/N transgenic mice.                                                                                                         |
| <b>Endotoxin Level</b>     | < 0.1 ng/g of ERBB3                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>             | Store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.                                 |
| <b>Official Symbol</b>     | ERBB3                                                                                                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>           | ERBB3v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [Homo sapiens]                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; MGC88033; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3; receptor tyrosine-protein kinase erbB-3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; EC2.7.10.1; EC 2.7.10 |
| <b>Gene ID</b>             | 2065                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_001005915                                                                                                                                                                                                                                                                                                                             |

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|                                     |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>               | NP_001005915                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                          | 190151                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>                   | P21860                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b>          | 12q13                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>                      | Calcium signaling pathway; Endocytosis; ErbB receptor signaling network; ErbB signaling pathway; ErbB2/ErbB3 signaling events; Heart Development; IL-6 Signaling Pathway; a6b1 and a6b4 Integrin signaling                                                                                                                                                                 |
| <b>Function</b>                     | ATP binding; growth factor binding; nucleotide binding; protein binding; protein heterodimerization activity; protein tyrosine kinase activator activity; NOT protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity |
| <b>PDB rendering based on 1m6b.</b> |                                                                                                                                                                                                                                                                                        |