

# Recombinant Human ERBB3, His-tagged, C13&N15 Labeled

Cat. No. ERBB3-196H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human ErbB-3 /HER3 MS Standard Protein, C13 and N15-labeled (ErbB-3 / HER3, Heavy Labeled) Ser 20 - Thr 643 (Accession # NP\_001973.2) was produced in human 293 cells (HEK293) with fully chemically defined cell culture medium to obtain >99% inc

**Species** Human

**Source** HEK293

**ProteinLength** 20-643 a.a.

**Description** ErbB3, also known as Her3 (human epidermal growth factor receptor 3), is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound glycoprotein has a neuregulin binding domain but has not an active kinase domain. It therefore can bind the ligand but cannot mediate the intracellular signal transduction through protein phosphorylation. However, it does form heterodimers with ErbB2 or other EGFR members responsible for tyrosine phosphorylation to give a receptor complex and initiate the related pathway, which lead to cell proliferation or differentiation. Overexpression of this protein has been reported in numerous cancers, including prostate, bladder, and breast tumors. This protein has different isoforms derived from alternative splicing variants, and among which, the secreted isoform lacking the intermembrane region modulates the activity of membrane-bound form.

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<b>Predicted N Terminal</b>	Ser 20
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
<b>Molecular Mass</b>	ErbB-3 / HER3, Heavy Labeled is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 71.5 kDa. The predicted N-terminus is Ser 20. DTT-reduced Protein migrates as 100-110 kDa in SDS-PAGE due to glycosylation. ErbB-3 / HER3, Heavy Lab
<b>Endotoxin</b>	Less than 1.0 EU per µg of the ErbB-3 / HER3, Heavy Labeled by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Applications</b>	MS Standard Protein
<b>Storage</b>	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).

## GENE INFORMATION

<b>Gene Name</b>	ERBB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [ Homo sapiens ]
<b>Official Symbol</b>	ERBB3
<b>Synonyms</b>	ERBB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); LCCS2, lethal congenital contracture syndrome 2; receptor tyrosine-protein kinase erbB-3; HER3; proto-oncogene-like protein c-ErbB-3; tyrosine kinase-type cell surface receptor HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-

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	ErbB3; p45-sErbB3; p85-sErbB3; MGC88033;
<b>Gene ID</b>	<a href="#">2065</a>
<b>mRNA Refseq</b>	<a href="#">NM_001005915</a>
<b>Protein Refseq</b>	<a href="#">NP_001005915</a>
<b>MIM</b>	<a href="#">190151</a>
<b>UniProt ID</b>	<a href="#">P21860</a>
<b>Chromosome Location</b>	12q13
<b>Pathway</b>	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Downregulation of ERBB2:ERBB3 signaling, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;
<b>Function</b>	ATP binding; growth factor binding; growth factor binding; nucleotide binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; protein tyrosine kinase activator activity; NOT pr

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