

## Product datasheet for **AR51945PU-N**

### ERBB3 / HER3 (20-643, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	ERBB3 / HER3 (20-643, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression cDNA Clone or AA Sequence:	SEVGSQAVC PGTNLGLSVT GDAENQYQTL YKLYERCEV MGNLEIVLTG HNADLSFLQW IREVTGYVLV AMNEFSTLPL PNLRVVRGTQ VYDGKFAIFV MLNYNTNSSH ALRQLRLTQL TEILSGGVYI EKNDKLCHMD TIDWRDIVRD RDAEIVKDN GRSCPPCHEV CKGRCWPGS EDCQTLTKI CAPQCNGHCF GPNPNQCCHD ECAGGCSGPQ DTDCFACRHF NDGACVPRC PQPLVYNKLT FQLEPNPHTK YQYGGVCVAS CPHNFVVDQT SCVRACPPDK MEVDKNGLKM CEPCCGLCPK ACEGTGSGSR FQTVDSNID GFVNCTKILG NLDFLITGLN GDPWHKIPAL DPEKLNVFRT VREITGYLNI QSWPPHMHNF SVFSNLTTIG GRSLYNRGFS LLIMKNLNV TSLGFRSLKEI SAGRIYISAN RQLCYHHS LN WTKVLRGPTE ERLDIKHNRP RRDCVAEGKV CDPLCSSGGC WGP GPGQCLS CRNYSRGGVC VTHCNFLNGE PREFAEAEAC FSCHPECQPM EGTATCNGSG SDTCAQCAHF RDGPHCVSSC PHGVLGAKGP IYKYPDVQNE CRPCHENCTQ GCKGPELQDC LGQTLVLIGK THLTRSPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NOVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSV MHE ALHNHYTQKS LSLSPGKHHH HHH
Tag:	His-tag
Predicted MW:	95.6 kDa
Concentration:	lot specific
Purity:	>80% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate buffered saline (pH 7.4) with 10% glycerol
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human ERBB3, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.


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**Stability:** Shelf life: one year from despatch.

**RefSeq:** [NP\\_001005915](#)

**Locus ID:** 2065

**UniProt ID:** [P21860](#)

**Cytogenetics:** 12q13.2

**Synonyms:** ERBB-3, c-erbB-3, HER-3

**Summary:** 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. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

**Protein Families:** Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Endocytosis, ErbB signaling pathway

## Product images:

