



Product Datasheet

Product Name	ErbB-2 Human Recombinant
Cata No	CB500898
Source	<i>Escherichia Coli.</i>
Synonyms	NEU, NGL, HER2, TKR1, HER-2, c-erb B2, HER-2/neu, Receptor tyrosine-protein kinase erbB-2, EC 2.7.10.1, p185erbB2, C-erbB-2, NEU proto-oncogene, Tyrosine kinase-type cell surface receptor HER2, MLN 19, CD340 antigen.

Description

HER-2/neu (erbB-2) encodes an 185-kDa orphan receptor tyrosine kinase that is constitutively active as a dimer and displays potent oncogenic activity when overexpressed. Herstatin, as the product of alternative HER-2 transcript, retains intron 8. The herstatin mRNA is expressed in normal human fetal kidney and liver, but is at reduced levels relative to p185HER-2 mRNA in carcinoma cells that contain an amplified HER-2 gene. Herstatin appears to be an inhibitor of p185HER-2, because it disrupts dimers, reduces tyrosine phosphorylation of p185, and inhibits the anchorage-independent growth of transformed cells that overexpress HER-2. ErbB-2 Human Recombinant is a 43.4 kDa protein containing 397 amino acid residues of the human Herstatin, and an extra Methionine at N-Terminal (underlined), produced in E.coli. The ErbB2 is purified by proprietary chromatographic techniques.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

Filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.

Reconstitution

Add deionized H₂O to a concentration of 0.5m/ml and let the lyophilized pellet dissolve completely. The protein requires 20 min at 37°C for complete reconstitution.

For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile. Please filter the product by an appropriate sterile filter before using it in cell culture.

It is recommended to add 5mM DTT and 0.1-0.15M NaCl before freezing in order to prevent potential aggregation.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to **avoid repeated freezing/thawing cycles**. Reconstituted protein can be stored at 4°C for a limited period of time. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Sequence

MTQVCTGTDM KLRLPASPET HLDMLRHLYQ
GCQVVQGNLE LTYLPTNASL SFLQDIQEVQ
GYVLIAHNQV RQVPLQRLRI VRGTQLFEDN
YALAVLDNGD PLNNTTPVTG ASPGGLRELQ
LRSLTEILKG GVLIQRNPQL CYQDTILWKD
IFHKNNQLAL TLIDTNRSA CHPCSPMCKG
SRCWGESSED CQSLTRTVCA GGCARCKGPL
PTDCHEQCA AGCTGPKHSD CLACLHFHNS

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GICELHCPAL VTYNTDTFES MPNPEGRYTF
GASCVTACPY NYLSTDVGSC TLVCPLHNQE
VTAEDGTQRC EKCSKPCARG THSLPPRPAA
VPVPLRMQPG PAHPVLSFLR PSWDLVSAFY
SLPLAPLSPT SVPISPVSFG RGPDPDAHVA
VDLSRYEG

Applications

Western blotting

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