



DATA SHEET

Her-2/neu (erbB-2) protein

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|--------------------------|---|---------------------|
| Cat # HER25-R-20 | Recombinant (E. Coli) Her-2/neu(erbB-2) protein, purified | SIZE: 20 ug |
| Cat # HER25-R-100 | Recombinant (E. Coli) Her-2/neu(erbB-2) protein, purified | SIZE: 100 ug |

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.

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.

Source

Human Her2/Herstatin or ErbB-2 Human Recombinant (43.4 kDa protein containing 397 aa) was expressed in E.coli and purified (>95%). The amino acid sequence of the recombinant human herstatin is 100% homologous to the amino acid sequence of the human herstatin without signal sequence.

Human Her2 Amino Acid Sequence:

| | | | |
|------------|------------|------------|------------|
| MTQVCTGTD | KLRLPASPET | HLDMRLRHL | GCQVVQGNLE |
| LYLPTNASL | SFLQDIQEVQ | GYVLIAHNQV | RQVPLQRLRI |
| VRGTQLFEDN | YALAVLDNGD | PLNNTTPVTG | ASPGGLRELQ |
| LRLTEILKG | GVLIQRNPQL | CYQDTILWKD | IFHKNNQLAL |
| TLIDTNRSRA | CHPCSPMCKG | SRCWGESSED | CQSLTRTVCA |
| GGCARCKGPL | PTDCCHEQCA | AGCTGPKHSD | CLACLHFNHS |
| GICELHCPAL | VTYNTDTFES | MPNPEGRYTF | GASCVTACPY |
| NYLSTDVSGC | TLVCPLHNQE | VTAEDGTQRC | EKCSKPCARG |
| THSLPPRPAA | VPVPLRMQPG | PAHPVLSFLR | PSWDLVSAFY |
| SLPLAPLSPT | SVPISPVSVG | RGPDPDAHVA | VDLSRYEG |

Form/Storage and Stability:

It is supplied in liquid (20 ug/40 ul or 100 ug/200 ul) in 0.05 mM Acetate buffer pH4 or lyophilized in the same buffer.

Reconstitute powder in 0.1M Acetate buffer pH 4.0 at 10 ug/ml and then dilute in desired buffers. and let the lyophilized pellet dissolve completely. At higher concentrations the solubility of her2 is limited. 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.

Biological Activity: Not tested.

Recommended usage

Western blot and ELISA. Other applications such as use in cell culture have not been tested and it should be optimized.

References:

Jhabvala-Romero F, (2003) Oncogene. 22(50): 8178-86; Azios NG (2001) Oncogene. 20(37): 5199-209; Doherty JK, (1999) Proc Natl Acad Sci U S A. 96(19): 10869-74.

**This product is for In vitro research use only.*

Related material available from ADI

HER25-R-20-100

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