

# Recombinant herstatin (human)



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CAT No. UCH001  
LOT No. A00015  
0.1 mg

## Product description

Herstatin a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. Herstatin has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported. Amplification and/or overexpression of this gene has been reported in numerous cancers, including gastric cancer, breast and ovarian tumors. Alternative splicing results in several additional transcript variants.

Reference sequences:	NM_004448 NP_004439 Swiss-prot P04626
Alternative names:	V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 Receptor tyrosine-protein kinase erbB-2 Neuroblastoma/glioblastoma derived oncogene homolog C-erb B2/neu protein P185erbB2 Proto-oncogene Neu Proto-oncogene c-ErbB-2 Metastatic lymph node gene 19 protein Tyrosine kinase-type cell surface receptor HER2
Gene ID:	2064

Residues 22-646 of the most common allele, Ile654/Ile655, of human herstatin were cloned, the protein was over-expressed in HEK293EBNA1 cells and purified to homogeneity (figure 1). The calculated molecular weight of recombinant human herstatin, residues 22-646, is 70.0 kDa. It contains an C-terminal hexahistidine tag. Each vial contains 100 µg herstatin.

## Storage and stability

HER2-ECD should be stored at - 80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

## Protein sequence

gstqvctgtdmklrlpaspthldmlrhlyqgcqvvggnleltylptnasls~qdiqevqgyvliahnqvrqvplqlriv  
rgtqlfednyalavldngdplnnttpvtgaspgglrelqlrslteilkggvliqrnpqlcyqdtlwkdfihknnqlaltlidtn  
rsrachpcspmkcgrcwgessedcqlstrtvcaggcarckgplptdccheqcaagctgpkhsdclahfnhsgicel  
hcpalvtyntdtfesmpnpegrytfgascvtacpynylstdvgsctlvcpnhqevtaedgtqrcekckspcarvcygl  
gmehlravratsaniqefagckkifgsla~pesfdgdpasntaplqpeqlqvfetleeitgylyisawpdsldpsvfnql  
qvirgrihngaysltlqglgiswlglsrlrelgsglalihhnhlcfvhtvpwdqlfrnphqallhtanrpedecvgeglach  
qlcarghcwpgpqtqcvcnsq~rgqecveecrvlqglpreyvnrhclpcheqppqngsvtcfgepadqcvaca  
hykdpffcvarcpsgvkpdlsympiwkfpdeegacqpcpinthscvdllddkgcpaeqaaahhhhhh



Figure 1.  
NuPage analysis of purified herstatin-hisC.  
lane 1: marker  
lane 2 : Herstatin-hisC

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