Herstatin Human E. coli Tag free

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog, HER-2, ERBB2, hCG_28177

Cat. No.:

RD172039025	(0.025 mg)
RD172039100	(0.1 mg)

Description

Total 398 AA. MW: 43.4 kDa (calculated). UniProtKB acc.no. Q9UK79. 397 AA of recombinant Human Herstatin and one extra AA, N-terminal methionin (highlighted).

Introduction to the Molecule

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 an 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.

Research topic

Oncology

Amino Acid Sequence

```
MTQVCTGTDM KLRLPASPET HLDMLRHLYQ GCQVVQGNLE LTYLPTNASL SFLQDIQEVQ GYVLIAHNQV RQVPLQRLRI
VRGTQLFEDN YALAVLDNGD PLNNTTPVTG ASPGGLRELQ LRSLTEILKG GVLIQRNPQL CYQDTILWKD IFHKNNQLAL
TLIDTNRSRA CHPCSPMCKG SRCWGESSED CQSLTRTVCA GGCARCKGPL PTDCCHEQCA AGCTGPKHSD CLACLHFNHS
GICELHCPAL VTYNTDTFES MPNPEGRYTF GASCVTACPY NYLSTDVGSC TLVCPLHNQE VTAEDGTQRC EKCSKPCARG
THSLPPRPAA VPVPLRMQPG PAHPVLSFLR PSWDLVSAFY SLPLAPLSPT SVPISPVSVG RGPDPDAHVA VDLSRYEG
```

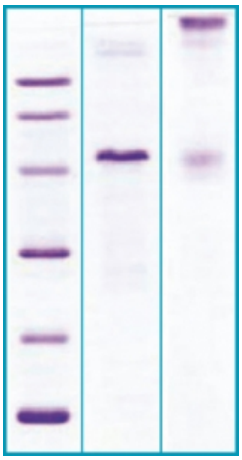
Source

E. coli

Purity

Purity as determined by densitometric image analysis: > 95%

SDS-PAGE gel



12% SDS-PAGE separation of Human Herstatin
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 2.5µg/lane
3. non-reduced and non-heated sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and frozen from 0.3 - 0.7 mg/mL solution in 0.05 M Acetate buffer pH=4.0 containing 5% of trehalose.

Reconstitution

Defrost at ambient temperature

Shipping

On ice. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store protein at -80°C. Protein remains stable until the expiry date when stored at -80°C. Avoid repeated freezing/thawing cycles.
Reconstituted protein can be stored at 4 °C for 3 days.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL to determine quantity of endotoxin.

Applications

ELISA, Western blotting

Note

This product is intended for research use only. The Certificate of Analysis on demand.

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com