

# Recombinant Cattle VEGFB Protein, His-tagged

**Cat. No.** VEGFB-565C    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Cattle VEGFB Protein (Pro22-Arg188) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Cattle                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Pro22-Arg188                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis.                                                                                                                                                                                  |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 49.0 kDa<br>Accurate Molecular Mass: 49 kDa                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                     |
| <b>Reconstitution</b> | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                            |

## GENE INFORMATION

|                        |                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VEGFB vascular endothelial growth factor B [ Bos taurus (cattle) ]                                                  |
| <b>Official Symbol</b> | VEGFB                                                                                                               |
| <b>Synonyms</b>        | VEGFB; vascular endothelial growth factor B; vascular endothelial growth factor B; VEGF-B; VEGF-related factor; VRF |
| <b>Gene ID</b>         | 282121                                                                                                              |
| <b>mRNA Refseq</b>     | NM_174487                                                                                                           |
| <b>Protein Refseq</b>  | NP_776912                                                                                                           |
| <b>UniProt ID</b>      | Q9XS49                                                                                                              |

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