

## Active Recombinant Porcine endoglin Protein, Fc tagged

**Cat. No.** ENG-13P    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Porcine Endoglin protein (Val29-Gly581) with Human IgG1 Fc tag (Pro100-Lys330) at C-terminus was expressed in Chinese Hamster Ovary cell line.                                                                 |
| <b>Species</b>                      | Porcine                                                                                                                                                                                                                    |
| <b>Source</b>                       | CHO                                                                                                                                                                                                                        |
| <b>Description</b>                  | Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis. Required for normal structure and integrity of adult vasculature. Regulates the migration of vascular endothelial cells. |
| <b>Tag</b>                          | Fc                                                                                                                                                                                                                         |
| <b>Form</b>                         | Disulfide-linked homodimer                                                                                                                                                                                                 |
| <b>Molecular Mass</b>               | 86.8 kDa (monomer)                                                                                                                                                                                                         |
| <b>Bio-activity</b>                 | Measured by its ability to inhibit BMP-10-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 0.3-1.2 µg/mL.                                                        |
| <b>N-terminal Sequence Analysis</b> | Val29                                                                                                                                                                                                                      |
| <b>Endotoxin</b>                    | < 0.01 EU/µg of the protein by the LAL method.                                                                                                                                                                             |

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|                       |                                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95%, by SDS-PAGE under reducing conditions and visualized by silver stain                                                                                                                                                                                                                              |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in PBS.                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>       | The product is shipped at ambient temperature.                                                                                                                                                                                                                                                           |
| <b>Reference</b>      | 1. Yamashita, H. et al. (1994) J. Biol. Chem. 269:1995.<br>2. ten Dijke, P. et al. (2008) Angiogenesis 11:79.<br>3. Bernabeu, C. et al. (2007) J. Cell. Biochem. 102:1375.                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ENG endoglin [ <i>Sus scrofa</i> (pig) ]                                                                     |
| <b>Official Symbol</b> | ENG                                                                                                          |
| <b>Synonyms</b>        | ENG; endoglin; CD105 antigen; CD105; Endoglin; ENDOSler-Rendu-Weber syndrome 1; ENG; HHT1FLJ41744; ORW; ORW1 |
| <b>Gene ID</b>         | 397096                                                                                                       |
| <b>mRNA Refseq</b>     | NM_214031                                                                                                    |
| <b>Protein Refseq</b>  | NP_999196                                                                                                    |

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UniProt ID

P37176

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