# Active Recombinant Mouse Endoglin

**Cat. No.** Eng-449M **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Mouse Engprotein was expressed in Murine myeloma cell line. Glu27-Gly581. |
| **Species** | Mouse |
| **Source** | Mammalian Cells |
| **ProteinLength** | 27-581 a.a. |
| **Description** | Eng is a 90kDa type I transmembrane glycoprotein of the zona pellucida (ZP) family of proteins.Eng andbetaglycan/TβRIII are type III receptors for TGF beta superfamily ligands, sharing71% amino acid (aa) identity within the transmembrane (TM) and cytoplasmicdomains. Eng ishighly expressed on proliferating vascular endothelial cells, chondrocytes,and syncytiotrophoblasts of term placenta, with lower amounts onhematopoietic, mesenchymal and neural crest stem cells, activated monocytes,and lymphoid and myeloid Leukemic cells. |
| **Form** | Lyophilizedfrom a 0.2 um filtered solution in PBS. |
| **N-terminalSequence** | Glu27 |
| **MolecularWeight** | 86 kDa (monomer) |
| **Activity** | Measuredby its ability to bind TGFβ RII/Fc Chimera in a functional ELISA. Optimaldilutions should be determined by each laboratory for each application. |

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| **Endotoxin Level** | <1.0EU per 1 μg of the protein by the LAL method. |
| **Purity** | >90%,by SDSPAGE under reducing conditions and visualized by silver stain. |
| **Reconstitution** | Reconstitute at 100μg/mL in sterilePBS. |
| **Storage** | Use amanual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1month, 2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to70°C under sterile conditions after reconstitution. |

## GENE INFORMATION

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| **Gene Name** | Eng endoglin [ Mus musculus] |
| **Official Symbol** | Eng |
| **Synonyms** | Eng; endoglin; CD105;AI528660; AI662476; S-endoglin; transmembrane glycoprotein; cell surfaceMJ7/18 antigen |
| **Gene ID** | 13805 |
| **mRNA Refseq** | NM_001146348 |
| **Protein Refseq** | NP_001139820 |
| **UniProt ID** | Q3UAM9 |
| **Chromosome Location** | 2 |
| **Pathway** | TGF Beta SignalingPathway |

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| **Function** | binding; galactosebinding; glycosaminoglycan bindingl; protein homodimerization activity; transforminggrowth factor beta binding; transforming growth factor beta receptor,cytoplasmic mediator activity; transforming growth factor beta-activatedreceptor activity; type I transforming growth factor beta receptor binding |

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