

Active Recombinant Mouse Endoglin

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

SPECIFICATION

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 and betaglycan/TβRIII are type III receptors for TGF beta superfamily ligands, sharing 71% amino acid (aa) identity within the transmembrane (TM) and cytoplasmic domains. Eng is highly expressed on proliferating vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta, with lower amounts on hematopoietic, mesenchymal and neural crest stem cells, activated monocytes, and lymphoid and myeloid Leukemic cells.
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
N-terminalSequence	Glu27
MolecularWeight	86 kDa (monomer)
Activity	Measured by its ability to bind TGFβ RII/Fc Chimera in a functional ELISA. Optimal dilutions 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 SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in sterilePBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to 70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Eng endoglin [<i>Mus musculus</i>]
Official Symbol	Eng
Synonyms	Eng; endoglin; CD105; AI528660; AI662476; S-endoglin; transmembrane glycoprotein; cell surface MJ7/18 antigen
Gene ID	13805
mRNA Refseq	NM_001146348
Protein Refseq	NP_001139820
UniProt ID	Q3UAM9
Chromosome Location	2
Pathway	TGF Beta Signaling Pathway

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Function

binding; galactosebinding; glycosaminoglycan binding; protein homodimerization activity; transforming growth factor beta binding; transforming growth factor beta receptor, cytoplasmic mediator activity; transforming growth factor beta-activated receptor activity; type I transforming growth factor beta receptor binding

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