

Active Recombinant Mouse Epiphycan, His-tagged

Cat. No. Epyc-467M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Epycprotein was expressed in Murine myeloma cell line with a C-terminal 10-His tag.Ala20-Ile322.
Species	Mouse
Source	Mammalian Cells
ProteinLength	20-322 a.a.
Description	Epyc, also called epiphycanor PGLb, is a 95-100 kDa class III subfamily member of the SLRP (small leucinerichproteoglycans) family of molecules. It is synthesized as a 322 amino acid (aa)precursor that contains a 19 aa signal sequence and a 303 aa mature region. Themature molecule contains three N-terminal O-glycosylation sites (including onefound to bind dermatin sulfate) and a glutamic acidrich motif followed by sixleucinerich repeats (LRR) that contain two potential Nglycosylation sites.
Form	Lyophilized from a 0.2µm filtered solution in PBS.
N-terminalSequence	Ala20
Molecular Weight	36.2 kDa
Activity	Measuredby the ability of the immobilized protein to inhibit the adhesion of SAOS2 humanosteosarcoma cells (ATCC: HTB85) to human Fibronectin. When 5 x 104cells/well are added to Mouse Epyc and Human Fibronectin(0.5 µg/mL) coated

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plates, the cell adhesion is enhanced in a dose dependent manner. The ED50 for this effect is typically 0.3-1.2 µg/mL. Optimal dilution should be determined by each laboratory for each application.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 200 µg/mL in PBS

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 [Epyc epiphycan \[Mus musculus \]](#)

Official Symbol [Epyc](#)

Synonyms Epyc; epiphycan; Dspg3; PG-Lb; SLRR3B; proteoglycan-Lb; dermatan sulfate proteoglycan 3; dermatansulphate proteoglycan 3; small chondroitin/dermatan sulfate proteoglycan; Pglb

Gene ID [13516](#)

mRNA Refseq [NM_007884](#)

Protein Refseq [NP_031910](#)

UniProt ID [P70186](#)

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Chromosome	10 C2-C3; 10 55.0 cM
Location	

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