

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
Protein Length	20-322 a.a.
Description	Epyc, also called epiphycan or PGLb, is a 95-100 kDa class III subfamily member of the SLRP (small leucine-rich proteoglycans) 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. The mature molecule contains three N-terminal O-glycosylation sites (including one found to bind dermatin sulfate) and a glutamic acid-rich motif followed by six leucine-rich repeats (LRR) that contain two potential N-glycosylation sites.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala20
Molecular Weight	36.2 kDa
Activity	Measured by the ability of the immobilized protein to inhibit the adhesion of SAOS2 human osteosarcoma cells (ATCC: HTB85) to human Fibronectin. When 5 x 10 ⁴ cells/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; dermatan sulphate 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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