

Recombinant Mouse Decorin

Catalog#:P00364 Derived from Human Cells

DESCRIPTION	Recombinant Mouse Decorin is produced by our Mammalian expression system and the target gene encoding Gly17- Lys354 is expressed with a 6His tag at the C-terminus. Accession#: P28654 Known as: Decorin; Bone proteoglycan II; PG-S2; PG40; Dcn
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
RECONSTITUTION	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i> <i>It is not recommended to reconstitute to a concentration less than 100$\mu\text{g/ml}$.</i> Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY CONTROL	Mol Mass: 39kDa AP Mol Mass: 41-50kDa, reducing conditions. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1ng/ μg (1 EU/ μg) as determined by LAL test.
BACKGROUND	Decorin, also known as PG40 and DCN, is a member of the class I family of small leucine-rich proteoglycans (SLRPs) that is expressed in the stroma of various forms of cancer and has been recently proposed to act as a guardian from the matrix. Mature human Decorin contains 12 tandem LRR and shares 80% and 78% aa sequence identity with mouse and rat Decorin, respectively. Decorin embraces numerous functions including: regulation of collagen fibrillogenesis, hepatic carcinogenesis, fetal membrane and calcium homeostasis, keratinocyte function, and suppression of angiogenesis. Most recently, soluble decorin has been shown to induce autophagy in endothelial cells and mitophagy in breast carcinoma cells.

