

# Recombinant Mouse Decorin protein (rFc Tag)

Catalog Number: Eg2955

## Basic Information

**Species:**  
Mouse**Purity:**  
>90 %, SDS-PAGE**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Mouse Decorin protein Gly17-Lys354 (Accession# P28654) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

13179

**Accession:**

P28654

**Predicted Molecular Mass:**

64.0 kDa

**SDS-PAGE:**

68-73 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Decorin is a member of the small leucine-rich proteoglycan family of proteins. Decorin interacts with type I collagen fibrils, thereby influencing the kinetics of fibril formation and the distance between adjacent collagen fibrils. The binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. Decorin (~40 kDa) also binds glycosaminoglycan chains to form big molecules.

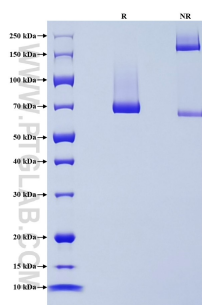
## References

1. McInturff S, Coen FV, et al. (2022) J Assoc Res Otolaryngol. 23(3):391-412.
2. Shi Y, Wu X, et al. (2022) Adv Sci (Weinh). 9(7):e2104112.
3. Lall SP, Alsafwani ZW, et al. (2024) Biochim Biophys Acta Rev Cancer. 1879(1):189029.
4. Zhang J, Chen H, et al. (2022) Neurosci Bull. 38(5):459-473.

## Synonyms

Bone proteoglycan II, Dcn, Decorin, PG40, PG-S2

## Selected Validation Data



Purity of Recombinant Mouse Decorin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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