# Recombinant Mouse SFRP1 Protein

## Catalog No.: RP03531

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## Sequence Information

**Species**
Mouse

**Gene ID**
20377

**Swiss Prot**
Q8C4U3

**Tags**
C-His

**Synonyms**
Sfrp1,Secreted frizzled-related protein 1, sFRP-1

## Product Information

**Source**
CHO Stable Cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
32.6 kDa

**Observed MW**
35-45 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Mouse sFRP1 is highly expressed in kidney and embryonic heart, as well as in the eye, where it is principally localized to the ciliary body and the lens epithelium.Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP1 decreases intracellular beta-catenin levels.Has antiproliferative effects on vascular cells, in vitro and in vivo, and can induce, in vivo, an angiogenic response. In vascular cell cycle, delays the G1 phase and entry into the S phase. In kidney development, inhibits tubule formation and bud growth in metanephroi.

## Basic Information

**Description**
Recombinant Mouse SFRP1 Protein is produced by CHO Stable Cells expression system. The target protein is expressed with sequence (Met1-Lys314) of Mouse SFRP1 (Accession # Q8C4U3) fused with His tag at the C-terminus.

**Activity**
Measured by its ability to inhibit Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is typically 0.4-2 μg/mL in the presence of 300 ng/mL of Recombinant Mouse Wnt-3a.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

**Contact**

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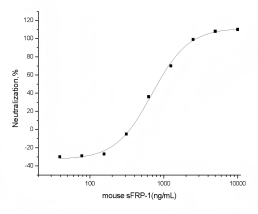
## Validation Data

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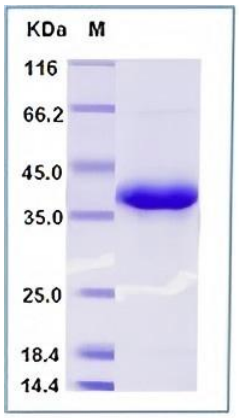


Recombinant Mouse SFRP1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.