

Recombinant Human SFRP4 Protein

Catalog No.: RP03242 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	6424	Q6FHJ7

Tags

C-His

Synonyms

secreted frizzled-related protein 4;
SFRP4; FRPHE

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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. SFRP4 plays a role in bone morphogenesis, and may also act as a regulator of adult uterine morphology and function. SFRP4 may also increase apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling, and it has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake.

Basic Information

Description

Recombinant Human SFRP4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Val346) of human SFRP4 (Accession #NP_003005.2) fused with His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit Wnt3a-induced alkaline phosphatase production by C3H10T 1/2 2A6 mouse embryonal fibroblast cells. The ED₅₀ for this effect is typically 1-6 μg/mL in the presence of 20 ng/mL of Wnt3a.

Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

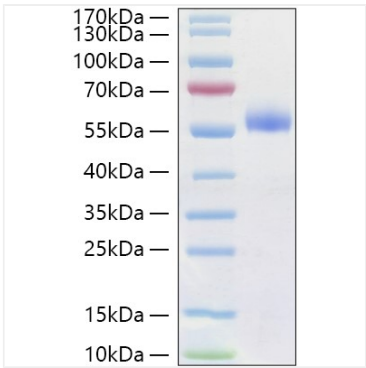
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Validation Data



Recombinant Human SFRP4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-60 kDa.