SFRP4 Protein, Human (HEK293, His)

Cat. No.:	HY-P74551
Synonyms:	Secreted frizzled-related protein 4; sFRP-4; FrpHE; FRPHE
Species:	Human
Source:	HEK293
Accession:	Q6FHJ7 (M18-V346)
Gene ID:	6424
Molecular Weight:	55-60 kDa

PROPERTIES

Biological Activity	Measured by its ability to inhibit Wnt3a-induced alkaline phosphatase production by C3H10T 1/2 2A6 mouse embryonal fibroblast cells and the ED_{50} is typically 1-6 μg/mL in the presence of 20 ng/mL of Wnt3a.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SFRP4, a member of the soluble frizzled-related proteins (sFRPs), serves as a modulator of Wnt signaling through its direct interaction with Wnts. Demonstrating functional similarities to other sFRPs, SFRP4 contributes to the regulation of cell growth and differentiation in specific cell types. Notably, it plays a crucial role in bone morphogenesis and may act as a regulator of adult uterine morphology and function. Additionally, SFRP4 is implicated in increasing apoptosis during ovulation, potentially through the modulation of FZ1/FZ4/WNT4 signaling. Furthermore, it exhibits phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake. These diverse functions underscore the versatile regulatory role of SFRP4 in various cellular processes and physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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