
Product Data Sheet

Product Name: SFRP4 Human, sf9

Cat. No.: GP24559

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Secreted Frizzled Related Protein 4; Secreted Frizzled-Related Protein 4; Frizzled Protein; Human Endometrium; SFRP-4; FRPHE Secreted Frizzled-Related Protein 4; Secreted Frizzled-Related Protein 4; FRP-4; PYL; SFRP4; FRPHE.		
Amino Acid Sequence	ADPVRGAPCE AVRIPMCRHMPWNITRMPNH LHHSTQENAI LAIEQYEELV DVNCSAVLRF FLCAMYAPIC TLEFLHDPIK PCKSVCQRARDDCEPLMKMY NHSWPESLAC DELPVYDRGV CISPEAIVTD LPEDVKWIDI TPDMMVQERP LDVDCKRLSPDRCKCKKVKP TLATYLSKNY SYVIHAKIKA VQRSGCNEVT TVVDVKEIFK SSSPIRRTQV PLITNSSCQCPHILPHQDVL IMCYEWRSRM MLLENCLVEK WRDQLSKRSI QWEERLQEQR RTVQDKKTA GRTSRSNPPKPKGKPPAPKP ASPKKNIKTR SAQKRTNPKR VHHHHHH		
Formulation	SFRP4 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Secreted frizzled-related protein 4 (SFRP4) belongs to the SFRP family which contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. SFRPs serve as soluble modulators of Wnt signaling. SFRP4 may serve as a regulator of adult uterine morphology and function. SFRP4 increases apoptosis during ovulation possibly via modulation of FZ1/FZ4/WNT4 signaling. SFRP4 also has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake. SFRP4 is expressed in proliferative endometrium and several types of ovarian, endometrial and Breast tumors. SFRP4 is expressed in mesenchymal cells and in cardiomyocytes. SFRP4 expression in ventricular myocardium correlates with apoptosis related gene expression. SFRP4 is up-regulated in failing myocardium.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SFRP4 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 337 amino acids (19-346 a.a.) and having a molecular mass of 38.9kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). SFRP4 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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