
Product Data Sheet

Product Name: SFRP4 Human
 Cat. No.: GP24558
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Secreted frizzled-related protein 4; sFRP-4; Frizzled protein; human endometrium; FrpHE; SFRP4; FRPHE; FRP-4.		
Amino Acid Sequence	PGDYKDDDDK PAGVRGAPCE AVRIPMCRHM PWNITRMPNH LHHSTQENAI LAIEQYEELV DVNCSAVLRF FLCAMYAPIC TLEFLHDPIK PCKSVCQRAR DDCEPLMKMY NHSWPESLAC DELPVYDRGV CISPEAIVTD LPEDVKWIDI TPDMMVQERP LDVDCKRLSP DRCKCKKVKP TLATYLSKNY SYVIHAKIKA VQRSGCNEVT TVVDVKEIFK SSSPIPTQV PLITNSSCQC PHILPHQDVL IMCYEWRSRM MLLENCLVEK WRDQLSKRSI QWEERLQEQR RTVQDKKKTA GRTSRSNPPK PKGKPPAPKP ASPKKNIKTR SAQKRTNPKR V.		
Solubility	It is recommended to add 200 μ l deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. SFRP4 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

ventricular myocardium correlates with apoptosis related gene expression. SFRP4 is up-regulated in failing myocardium.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

SFRP4 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (a.a 19-346) containing a total of 341 amino acids, having a molecular mass of 39kDa (calculated), though it migrates at approximately 55kDa on SDS PAGE, the SFRP4 is fused to a 5 a.a N-terminal linker and an 8 a.a Flag tag at N-Terminus. The Human SFRP4 is purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA