

Datasheet for ABIN7317804 **SFRP1 Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	SFRP1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SFRP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human sFRP1/SARP2 Protein (His Tag)(Active)
Sequence:	Met 1-Lys 314
Characteristics:	A DNA sequence encoding the human sFRP1 (NP_003003.3) (Met 1-Lys 314) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit proliferation of HeLa human cervical epithelial carcinoma cells. The ED50 for this effect is typically 2.5-10 µg/ml.

Target Details

Target:	SFRP1
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Target Details

Alternative Name:	sFRP1/SARP2 (SFRP1 Products)
Background:	<p>Background: Secreted frizzled-related protein 1, also known as sFRP1, is a 35 kDa prototypical member of the SFRP family. SFRP family consists of five secreted glycoproteins in humans acting as extracellular signaling ligands. Each is approximately 300 amino acids in length and contains a cysteine-rich domain (CRD) that shares 30-50% sequence homology with the CRD of Frizzled (Fz) receptors, a putative signal sequence, and a conserved hydrophilic carboxy-terminal domain. SFRPs act as soluble modulators of Wnt signaling, counteracting Wnt-induced effects at high concentrations and promoting them at lower concentrations. SFRPs are able to bind Wnt proteins and Fz receptors in the extracellular compartment. The interaction between SFRPs and Wnt proteins prevents the latter from binding the Fz receptors. The Wnt pathway plays a key role in embryonic development, cell differentiation and cell proliferation. The deregulation of this critical developmental pathway occurs in several human tumor entities. 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.</p> <p>Synonym: FRP;FRP-1;FRP1;FrzA;SARP2</p>
Molecular Weight:	34 kDa
NCBI Accession:	NP_003003
Pathways:	WNT Signaling , Intracellular Steroid Hormone Receptor Signaling Pathway , Negative Regulation of Hormone Secretion , Regulation of Intracellular Steroid Hormone Receptor Signaling , Stem Cell Maintenance , Tube Formation , Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>