

SFRP1 active protein

SFRP1 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257909

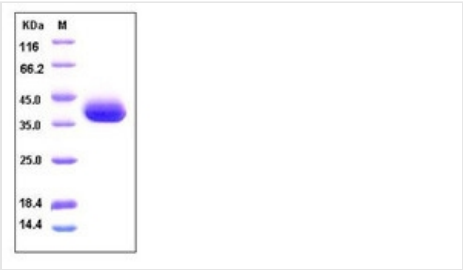
HOST
HEK293 Cells

PRODUCT SYNONYMS

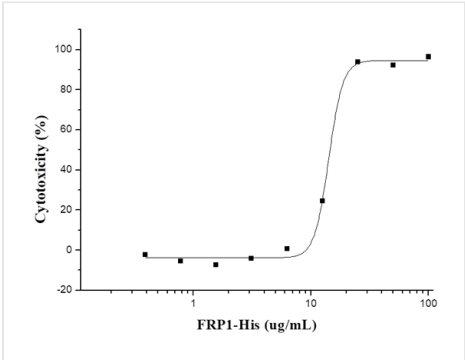
SFRP1; SFRP1 Protein; Human; Recombinant (His Tag); Human sFRP1/SARP2 Protein (His Tag); FRP Protein; FRP-1 Protein; FRP1 Protein; FrzA Protein; SARP2 Protein; secreted frizzled-related protein 1; SFRP1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys314
Species	Human
Activity	Measured by its ability to inhibit proliferation of HeLa human cervical epithelial carcinoma cells. The ED ₅₀ for this effect is typically 5-30ug/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 32
Tag	C-His
Protein Construction	A DNA sequence encoding the human sFRP1 (NP_003003.3)(Met 1-Lys 314) was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data



SDS-PAGE
Measured by its ability to inhibit proliferation of HeLa human cervical epithelial carcinoma cells. The ED50 for this effect is typically 5-30 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for SFRP1 active protein	Background: Secreted frizzled-related protein 1, also known as sFRP1, is a 35kDa prototypical member of the SFRP family. SFRP family consists of five secreted glycoproteins in humans acting as extracellular signaling ligands. Each is approximately 3 amino acids in length and contains a cysteine-rich domain (CRD) that shares 3-5% 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.
References	Finch P.W., et al.,(1997), Purification and molecular cloning of a secreted, Frizzled-related antagonist of Wnt action. Proc. Natl. Acad. Sci. U.S.A. 94:6770-6775.Melkonyan H.S., et al., (1997), SARPs: a family of secreted apoptosis-related proteins.Proc. Natl. Acad. Sci. U.S.A. 94:13636-13641.Zhou Z., et al.,(1998), Up-regulation of human secreted frizzled homolog in apoptosis and its down-regulation in breast tumors.Int. J. Cancer 78:95-99.

NCBI AND UNIPROT INFORMATION

NCBI GI #	56117838
NCBI GeneID	6422
NCBI Accession #	NP_003003.3
NCBI GenBank Nucleotide #	NM_003012.4
UniProt Accession #	Q8N474; O00546; O14779
Molecular Weight	35,386 Da
NCBI Official Full Name	secreted frizzled-related protein 1
NCBI Official Synonym Full Names	secreted frizzled-related protein 1
NCBI Official Symbol	SFRP1
NCBI Official Synonym Symbols	FRP; FRP1; FrzA; FRP-1; SARP2
NCBI Protein Information	secreted frizzled-related protein 1; SARP-2; sFRP-1; secreted apoptosis-related protein 2
UniProt Protein Name	Secreted frizzled-related protein 1
UniProt Gene Name	SFRP1

UniProt Synonym Gene Names	FRP; FRP1; SARP2; FRP-1; sFRP-1; SARP-2
UniProt Entry Name	SFRP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/sfrp1/257909>