

Recombinant human SFRP1 protein ab64445

2 References

Description

Product name	Recombinant human SFRP1 protein
Biological activity	Biological Activity :Determined by its ability to inhibit BMP-2 proliferation effect of ATDC-5 cells. The expected ED50 is 0.3-0.5 µg/ml.
Purity	> 95 % SDS-PAGE. Purity: Greater than 97% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
Expression system	HeLa cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	SEYDYVSFQS DIGPYQSGRF YTKPPQCVDI PADLRLCHNV GYKKMVLPNL LEHETMAEVK QQASSWVPLL NKNCHAGTQV FLCSLFAPVC LDRPIYPCRW LCEAVRDSCE PVMQFFGFYW PEMLKCDKFP EGDVCIAMTP PNATEASKPQ GTTVCPPCDN ELKSEAIIEH LCASEFALRM KIKEVKKENG DKKIVPKKKK PLKLGPIKKK DLKKLVLYLK NGADCPCHQL DNLSHHFLIM GRKVKSQYLL TAIHKWDKKN KEFKNFMKKM KNHECPTFQS VFK
Amino acids	32 to 314

Specifications

Our **Abpromise guarantee** covers the use of **ab64445** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C..  This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with 200µl of sterile water.

## General Info

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<b>Function</b>	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP1 decreases intracellular beta-catenin levels (By similarity). Has antiproliferative effects on vascular cells, in vitro and in vivo, and can induce, in vivo, an angiogenic response. In vascular cell cycle, delays the G1 phase and entry into the S phase (By similarity). In kidney development, inhibits tubule formation and bud growth in metanephroi (By similarity). Inhibits WNT1/WNT4-mediated TCF-dependent transcription.
<b>Tissue specificity</b>	Widely expressed. Absent from lung, liver and peripheral blood leukocytes. Highest levels in heart and fetal kidney. Also expressed in testis, ovary, fetal brain and lung, leiomyomal cells, myometrial cells and vascular smooth muscle cells. Expressed in foreskin fibroblasts and in keratinocytes.
<b>Sequence similarities</b>	Belongs to the secreted frizzled-related protein (sFRP) family. Contains 1 FZ (frizzled) domain. Contains 1 NTR domain.
<b>Domain</b>	The FZ domain is involved in binding with Wnt ligands.
<b>Cellular localization</b>	Secreted. Cell membrane or extracellular matrix-associated. Released by heparin-binding.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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