abcam

Product datasheet

Recombinant human SFRP4 protein (Active) ab245787

Description

Product name	Recombinant human SFRP4 protein (Active)
Biological activity	Determined by its ability to decrease alkaline phosphatase activity in CCL-226 cells when treated with 25ng/ml of Murine Wnt-3a.
Purity	> 95 % SDS-PAGE. >95% by HPLC.
Endotoxin level	< 1.000 Eu/µg
Expression system	CHO cells
Accession	Q6FHJ7
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	VRGAPCEAVRIPMCRHMPWNITRMPNHLHHSTQENAILAIE QYEELVDVN CSAVLRFFLCAMYAPICTLEFLHDPIKPCKSVCQRARDDC EPLMKMYNHS WPESLACDELPVYDRGVCISPEAIVTDLPEDVKWIDITPD MMVQERPLDV DCKRLSPDRCKCKKVKPTLATYLSKNYSYVIHAKIKAVQRS GCNEVTTVV DVKEIFKSSSPIPRTQVPLITNSSCQCPHILPHQDVLIMCYE WRSRMMLL ENCLVEKWRDQLSKRSIQWEERLQEQRRTVQDKKKTAG RTSRSNPPKPKG KPPAPKPASPKKNIKTRSAQKRTNPKRV
Predicted molecular weight	38 kDa
Amino acids	19 to 346
Additional sequence information	Full-length mature chain lacking the signal peptide.

Specifications

Our Abpromise guarantee covers the use of **ab245787** 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 HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Sterile filtered through a 0.2 micron filter. Lyophilized from 10mM Sodium Phosphate. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge vial prior to opening. Reconstitute in water to 0.1-1.0 mg/ml. Do not vortex. Store at 2°C to 8°C for 1 week, or prepare for extended storage.

General Info

Function	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. SFRP4 may act as a regulator of adult uterine morphology and function. Increases apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling (By similarity). Has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake.
Tissue specificity	Expressed in mesenchymal cells. Highly expressed in the stroma of proliferative endometrium. Expressed in cardiomyocytes. Shows moderate to strong expression in ovarian tumors with expression increasing as the tumor stage increases. In ovarian tumors, expression levels are inversely correlated with expression of CTNNB1 (at protein level).
Sequence similarities	Belongs to the secreted frizzled-related protein (sFRP) family. Contains 1 FZ (frizzled) domain. Contains 1 NTR domain.
Domain	The FZ domain is involved in binding with Wnt ligands.
Cellular localization	Secreted. Cytoplasmic in ovarian tumor cells.

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