Recombinant Human sFRP4 Protein (His Tag)

Catalog Number:PKSH031458

Note: Centrifuge before opening to ensure complete recovery of vial contents.

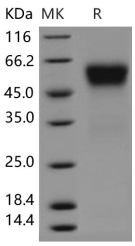
Description

Synonyms	FRP-4;FRPHE;sFRP-4
Species	Human
Expression Host	CHO Stable Cells
Sequence	Met 1-VAL346
Accession	NP_003005.2
Calculated Molecular Weight	39.0 kDa
Observed molecular weight	39 kDa
Tag	C-His
Bioactivity	Measured by its ability to inhibit Wnt3a-induced alkaline phosphatase production by C3H10T 1/2 2A6 mouse embryonal fibroblast cells. The ED50 for this effect is typically 2-20 μg/mL in the presence of 20 ng/mL of Wnt3a.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

SFRP family consists of five secreted glycoproteins in humansacting 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 ofFrizzled(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 bindWntproteins 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. SFRP4 is a member of the SFRP family that contains acysteine-rich domain homologous to the putative Wnt-binding site ofFrizzledproteins called FZ domain and a NTR domain . Mouse SFRP4 is highly expressed in the ovary, and is localized to granulosa cells of periovulatory follicles and corpora lutea. It plays a critical role in placental development and implantation, and is also an important factor in the development of the decidual fibrinoid zone, and in trophoblast apoptosis.

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