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Recombinant Mouse sFRP2 Protein (His Tag)

Catalog No. PKSM040904

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

Description

Synonyms AI851596;Sdf5

Species Mouse

Expression Host HEK293 Cells
Sequence Met 1-Cys 295
Accession NP_033170.1
Calculated Molecular Weight 32.5 kDa
Observed molecular weight 36 kDa
Tag C-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug 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°C. 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

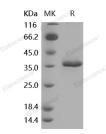
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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

The Secreted frizzled-related protein (SFRP) family consists of five secreted glycoproteins in humans (SFRP1~5)that act as extracellular signaling ligands. Each SFRP is approximately 300 amino acids in length and contains a cysteine-rich

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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 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. sFRP2 is a member of the SFRP family acting as soluble modulators of Wnt signaling and contains acysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins called FZ domain and a NTR domain.sFRP2 inhibites hypoxia induced endothelial cell apoptosis and increases endothelial cell migration. It prevents mesoderm specification and maintains the cells in the undifferentiated state. SFRP2 is also a novel stimulator of angiogenesis that stimulates angiogenesis via a calcineurin/NFAT pathway, thus is regarded as a favorable target for the inhibition of angiogenesis in solid tumors. Mouse sFRP2 is highly expressed in the eye and is also detected in heart and lung at low level.

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