

SFRP1 active protein

SFRP1 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258118

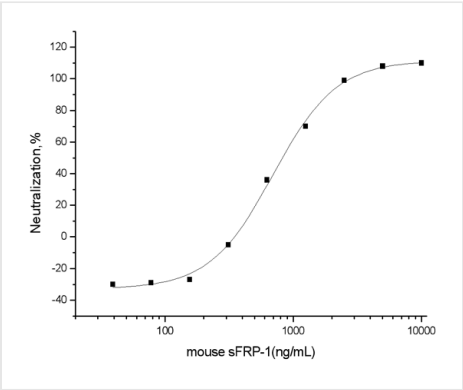
HOST
CHO Stable Cells

PRODUCT SYNONYMS

SFRP1; SFRP1 Protein; Mouse; Recombinant (His Tag); Mouse sFRP1 Protein (His Tag); 2210415K03Rik Protein; AW011917 Protein; AW107218 Protein; AW742929 Protein; sFRP-1 Protein; secreted frizzled-related protein 1; SFRP1 active protein

PRODUCT SPECIFICATIONS

Host	CHO Stable Cells
Purity/Purification	>95% 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-Lys31 4
Species	Mouse
Activity	Measured by its ability to inhibit Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is typically 0.4-2ug/mL in the presence of 300ng/mL of Recombinant Mouse Wnt ³ a.
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Ser 32
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse SFRP1 (AAC53145.1)(Met1-Lys314) was expressed with a polyhistidine tag at the C-terminus.
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.



SDS-PAGE

Application Data
Measured by its ability to inhibit Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is typically 0.4-2 ug/mL in the presence of 300 ng/mL of Recombinant Mouse Wnt-3a.

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

Molecular Weight	The recombinant mouse SFRP1 consists of 283 amino acids and predicts a molecular mass of 32.6kDa.
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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.