

Human FRZB / sFRP-3 Protein (His Tag)

Catalog Number: 10370-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

FRE; FRITZ; FRP-3; FRZB-1; FRZB-PEN; FRZB1; FZRB; hFIZ; OS1; SFRP3; SRFP3; frezzled; fritz; Frp; frzb-1; Sfrp3

Protein Construction:

A DNA sequence encoding the human FRZB (NP_001454.2) (Ala32-Asn325) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 32

Molecular Mass:

The recombinant human FRZB comprises 304 amino acids and has a predicted molecular mass of 34.5 kDa. The apparent molecular mass of the protein is approximately 41 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

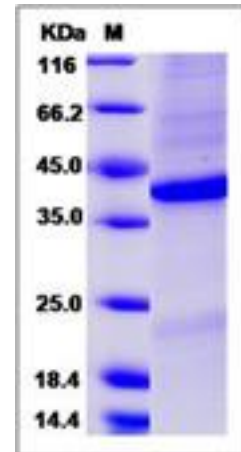
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

FRZB also known as sFRP-3, is a secreted protein containing a domain similar to the putative Wnt-binding region of the frizzled family of transmembrane receptors. FRZB is widely expressed in adult mammalian tissues. In the *Xenopus* gastrula, FRZB is regulated as a typical Spemann organizer component. FRZB also functions as a competitor for the cell-surface G-protein receptor Frizzled. It is especially important in embryonic development. Defects in FRZB gene can cause female-specific osteoarthritis (OA) susceptibility. FRZB may serve an important role in determining hip shape and may modify the relationship between hip shape and OA.

References

1. Hoang B., *et al.*, (1996), Primary structure and tissue distribution of FRZB, a novel protein related to *Drosophila* frizzled, suggest a role in skeletal morphogenesis. *J. Biol. Chem.* 271:26131-26137.
2. Mayr T., *et al.*, (1997), Fritz: a secreted frizzled-related protein that inhibits Wnt activity. *Mech. Dev.* 63:109-125.
3. Leyns L., *et al.*, (1997), Frzb-1 is a secreted antagonist of Wnt signaling expressed in the Spemann organizer. *Cell* 88:747-756.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>