

Human SRFBP1 Protein (His & GST Tag)

Catalog Number: 14461-H20B



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Biological Solution Specialist

General Information

Gene Name Synonym:

BUD22; P49; p49/STRAP; Rib1; STRAP; 2810036K01Rik; p49/STRAP

Protein Construction:

A DNA sequence encoding the human SRFBP1(Q8NEF9) (Met1-Asp429) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % 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: Met

Molecular Mass:

The secreted recombinant human SRFBP1 consists of 666 amino acids and predicts a molecular mass of 76.5 KDa. The apparent molecular mass of the protein is approximately 69 KDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, 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:

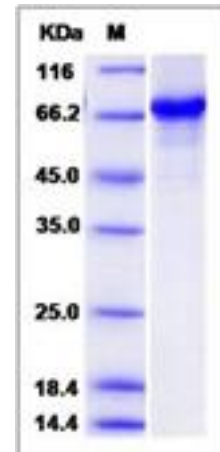
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

SRFBP1 contains 7 WD repeats and belongs to the WD repeat STRAP family. SRFBP1 may play a role in the cellular distribution of the SMN complex. The SMN complex plays an essential role in spliceosomal snRNP assembly in the cytoplasm and is required for pre-mRNA splicing in the nucleus. SRFBP1 negatively regulates TGF-beta signaling but positively regulates the PDPK1 kinase activity by enhancing its autophosphorylation and by significantly reducing the association of PDPK1 with 14-3-3 protein. SRFBP1 may be involved in regulating transcriptional activation of cardiac genes during the aging process. It also may play a role in biosynthesis and/or processing of SLC2A4 in adipose cells.

References

- 1.Datta PK, *et al.* (1999) Identification of STRAP, a novel WD domain protein in transforming growth factor-beta signaling. J Biol Chem. 273(52):34671-4.
- 2.Datta PK, *et al.* (1998) Identification of STRAP, a novel WD domain protein in transforming growth factor-beta signaling. J Biol Chem. 273(52):34671-4.
- 3.Datta PK, *et al.* (2000) STRAP and Smad7 synergize in the inhibition of transforming growth factor beta signaling. Mol Cell Biol. 20(9):3157-67.

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