Data Sheet (Cat.No.TMPY-03456)

TargetMol

SRFBP1 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	STRAP;BUD22;P49;serum response factor binding protein 1;p49/STRAP;Rlb1
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. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q8NEF9
Molecular Weight:	76.5 kDa (predicted); 69 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM NaCl, 10% gly, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Reference

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.
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.
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.