

Human STXBP3 / UNC-18C Protein (His & GST Tag)

Catalog Number: 11823-H20B



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

MUNC18-3; MUNC18C; PSP; UNC-18C; Munc-18c; Stxbp3a; Sxtbp3; Unc18-3

Protein Construction:

A DNA sequence encoding the human STXBP3 (O00186-1) (Met 1-Glu 592) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 82 % 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 recombinant human STXBP3/GST chimera consists of 829 amino acids and has a calculated molecular mass of 95.6 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.5, 10% glycerol

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:

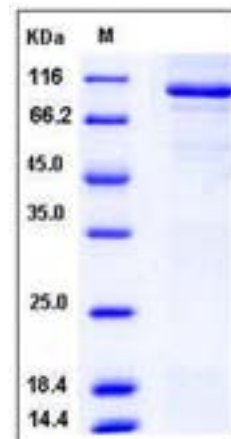
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Syntaxin-binding protein 3, also known as Platelet Sec1 protein, Protein unc-18 homolog 3, Protein unc-18 homolog C, Unc-18C, Unc18-3 and STXBP3, is a cytoplasm protein which belongs to the STXBP/unc-18/SEC1 family. STXBP3 is expressed in cells that exhibit granule exocytosis, such as neutrophils, mast cells, platelets and endothelial cells. STXBP3, together with STX4 and VAMP2, may play a role in insulin-dependent movement of GLUT4 and in docking / fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes. STXBP3 participates in the consolidation and secretion of secondary and tertiary granules. STXBP3 contains one SEC1 domain. Phosphorylation at Ser129 may stimulate granule release. Human STXBP3 shares 90% aa identity with mouse STXBP3. STXBP3 interacts with DOC2B; the interaction is direct, occurs at the cell membrane, excludes interaction with STX4 and regulates glucose-stimulated insulin secretion. Interacts with STX4.

References

1. Kidd, M. et al., 2008, Am J Physiol Gastrointest Liver Physiol. 295 (2): G260-72.
2. Macedo, C. et al., 2008, Mol Cell Biochem. 318 (1-2): 63-71.

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