

Munc18c/STXBP3 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	syntaxin binding protein 3;MUNC18C;UNC-18C;MUNC18-3;PSP
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. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	O00186-1
Molecular Weight:	95.6 kDa (predicted); 95.6 kDa (reducing conditions)

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:	> 82 % 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, pH 8.5, 10% glycerol. 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

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.

A DRUG SCREENING EXPERT

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 9% 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.

Reference

Kidd,M. et al., 2008, Am J Physiol Gastrointest Liver Physiol. 295 (2): G260-72.

Macedo,C. et al., 2008, Mol Cell Biochem. 318 (1-2): 63-71.

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