

## STXBP3 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74535
Synonyms:	Syntaxin-binding protein 3; PSP; Unc18-3; STXBP3
Species:	Human
Source:	Sf9 insect cells
Accession:	O00186 (M1-E592)
Gene ID:	6814
Molecular Weight:	Approximately 95.6 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.5, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The STXBP3 protein, in conjunction with STX4 and VAMP2, potentially functions in the insulin-dependent movement of GLUT4 and the docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes. Additionally, STXBP3 interacts with DOC2B directly at the cell membrane, excluding interaction with STX4, thereby regulating glucose-stimulated insulin secretion. Furthermore, STXBP3 engages in interaction with STX4, indicating its involvement in diverse cellular processes, particularly those related to vesicle trafficking and insulin-responsive glucose transport in adipocytes. These molecular associations underscore the multifaceted role of STXBP3 in cellular dynamics and insulin-regulated pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA