STX7 Protein, Human (HEK293, His)

Cat. No.:	HY-P71024
Synonyms:	Syntaxin-7; STX7; syntaxin 7
Species:	Human
Source:	HEK293
Accession:	O15400 (S2-L238)
Gene ID:	8417
Molecular Weight:	31-36 kDa

PROPERTIES

AA Sequence	S Y T P G V G G D P A Q L A Q R I S S N I Q K I T Q C S V E I Q R T L N Q L G T P Q D S P E L R Q Q L Q Q K Q Q Y T N Q L A K E T D K Y I K E F G S L P T T P S E Q R Q R K I Q K D R L V A E F T T S L T N F Q K V Q R Q A A E R E K E F V A R V R A S S R V S G S F P E D S S K E R N L V S W E S Q T Q P Q V Q V Q D E E I T E D D L R L I H E R E S S I R Q L E A D I M D I N E I F K D L G M M I H E Q G D V I D S I E A N V E N A E V H V Q Q A N Q Q L S R A A D Y Q R K S R K T L
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	STX7 Protein emerges as a pivotal player in cellular processes governing protein trafficking and membrane fusion events. It is implicated in the trafficking of proteins from the plasma membrane to the early endosome (EE) and contributes to the homotypic fusion of endocytic organelles. Additionally, STX7 mediates endocytic trafficking from early endosomes to late endosomes and lysosomes, emphasizing its role in the dynamic regulation of endosomal compartments. By forming a SNARE complex with VTI1B, STX8, and VAMP8, STX7 plays a crucial role in the homotypic fusion of late endosomes. It is also a component of the SNARE complex, along with STX8, VAMP7, and VTI1B, essential for the heterotypic fusion of late

endosomes with lysosomes. Interactions with VPS11, VPS16, VPS18, VPS33A, and TPC1 underscore the intricate network of associations, revealing the multifaceted involvement of STX7 in coordinating membrane fusion events and protein trafficking within the endocytic pathway. Investigating the detailed mechanisms underlying STX7's functions could provide valuable insights into its regulatory role in cellular membrane dynamics.

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