

## Syntaxin-7 Protein, Rat (HEK293, His)

Cat. No.:	HY-P73620
Synonyms:	STX7; Syntaxin 7; syntaxin-7
Species:	Rat
Source:	HEK293
Accession:	O70257/NP_068641.2 (S2-L238)
Gene ID:	60466
Molecular Weight:	Approximately 30 kDa

### PROPERTIES

AA Sequence	<pre> SYTPGIGGDP   AQLAQRISSN   IQKITQCSAE   IQRTLNLQ LGT PQDTPELRQQ   LQQEQQYTNQ   LAKETDKYIK   EFGFLPTT PS EQRQRKI QKD   RLVAEFTTAL   TNFQKVQRQA   AEREKEFVAR VRASSRVSGG   FPEDSSKEKN   FVSWESQTQP   QVQVQDEEIT EDDLRLIHER   ESSIRQLEAD   IMDINEIFKD   LGMMIHEQGD VIDSIEANVE   SAEVHVQQAN   QQLSRAANYQ   RKS R KTL           </pre>
Biological Activity	Immobilized Rat Syntaxin-7 at 2 µg/mL (100 µL/well) can bind Anti- Syntaxin-7 Antibody, The ED <sub>50</sub> for this effect is 0.01394 µg/mL.
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. 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	Syntaxin-7 Protein emerges as a key player in cellular processes related to 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, Syntaxin-7 plays a pivotal role in mediating endocytic trafficking
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from early endosomes to late endosomes and lysosomes. Interactions with VPS11, VPS16, VPS18, and VPS33A underscore its involvement in endosomal dynamics. Furthermore, Syntaxin-7 forms a SNARE complex with VTI1B, STX8, and VAMP8, crucial for the homotypic fusion of late endosomes. It is also a component of the SNARE complex with STX7, STX8, VAMP7, and VTI1B, essential for heterotypic fusion of late endosomes with lysosomes. The interaction with TPC1 further suggests its participation in intricate cellular processes. Investigating the detailed mechanisms underlying Syntaxin-7's interactions and functions could provide valuable insights into its role in membrane trafficking and fusion events within the endocytic pathway.

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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