Syntaxin-8 Protein, Human

Cat. No.:	HY-P71348
Synonyms:	Syntaxin-8; STX8
Species:	Human
Source:	E. coli
Accession:	Q9UNK0 (M1-G215)
Gene ID:	9482
Molecular Weight:	Approximately 28.0 kDa

PROPERTIES

AA Sequence	M A P D P W F S T Y D S T C Q I A Q E I A E K I Q Q R N Q Y E R K G E K A P K L T V T I R A L L Q N L K E K I A L L K D L L L R A V S T H Q I T Q L E G D R R Q N L L D D L V T R E R L L L A S F K N E G A E P D L I R S S L M S E E A K R G A P N P W L F E E P E E T R G L G F D E I R Q Q Q Q K I I Q E Q D A G L D A L S S I I S R Q K Q M G Q E I G N E L D E Q N E I I D D L A N L V E N T D E K L R N E T R R V N M V D R K S A S C G
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 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	Syntaxin-8, a vesicle trafficking protein, operates within the early secretory pathway, potentially facilitating retrograde transport from cis-Golgi membranes to the endoplasmic reticulum (ER). It plays a crucial role in homotypic fusion of late endosomes by forming a SNARE complex with STX7, VTI1B, and VAMP8. As a component of the SNARE core complex containing STX7, VAMP8, and VTI1B, Syntaxin-8 engages in intricate molecular interactions. It interacts with VAMP8, contributing to the coordination of vesicle fusion events. Additionally, Syntaxin-8 interacts with HECTD3 and TPC1, further highlighting its involvement in diverse cellular processes and emphasizing its significance in vesicle trafficking and

	membrane fusion events.

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