

## STX17 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702458
Synonyms:	Syntaxin-17
Species:	Human
Source:	E. coli Cell-free
Accession:	P56962 (S2-S302)
Gene ID:	55014
Molecular Weight:	34.8 kDa

### PROPERTIES

#### AA Sequence

SEDEEKVKLR	RLEPAIQKFI	KIVIPTDLER	LRKHQINIEK
YQRCRIWDKL	HEEHINAGRT	VQQLRSNIRE	IEKLCCLKVRK
DDLVL LKRM I	DPVKEEASAA	TAEFLQLHLE	SVEELKKQFN
DEETLLQPPL	TRSM TVGGAF	HTTEAEASSQ	SLTQIYALPE
IPQDQNAAES	WETLEADLIE	LSQLVTD FSL	LVNSQQEKID
SIADHVNSAA	VNVEEGTKNL	GKAAKYKLAA	LPVAGALIGG
MVGGPIGLLA	GFKVAGIAAA	LGGGV LGFTG	GKLIQRKKQK
MMEKLTSSCP	DLPSQTDKKC	S	

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

#### 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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### 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

STX17, a pivotal member of the SNARE (soluble N-ethylmaleimide-sensitive factor-attachment protein receptor) family, assumes a crucial role in mediating the fusion of cellular membranes. This SNARE protein is localized on opposing membranes, where it assembles into a trans-SNARE complex—an extended, parallel four alpha-helical bundle that serves as

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the driving force behind membrane fusion. Specifically implicated in autophagy, STX17 exerts direct control over autophagosome membrane fusion with the lysosome membrane. Additionally, it may participate in the early secretory pathway, influencing the architecture of the endoplasmic reticulum-Golgi intermediate compartment/ERGIC and Golgi, and regulating transport between the endoplasmic reticulum, ERGIC, and Golgi. Within the context of autophagy, STX17 forms a SNARE complex alongside VAMP8 and SNAP29, orchestrating the fusion of autophagosomes with lysosomes. The protein engages in a myriad of interactions, including VAMP7, VTI1B, BET1, SCFD1, SEC22B, PTPN2, ABL1, COPB1, TMED9, TMED10, ATG14, RUBCNL/PACER, VPS39, VPS41, IRGM, GABARAP, and MAP1LC3B, highlighting its versatile molecular associations in various cellular processes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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