Data Sheet (Cat.No.TMPY-03629)

TargetMol

Syntaxin 8 Protein, Human, Recombinant (His)

General Information

Synonyms:	STX-8;STX8;syntaxin 8
Protein Construction:	A DNA sequence encoding the human STX8 (Q9UNK0) (Met1-Gly215) was expressed with an N-terminal polyhistidine tag. Predicted N terminal: His
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UNK0
Molecular Weight:	27 kDa (predicted); 34 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, PH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

STX8, also known as syntaxin 8, directly interacts with HECTd3. STX8 forms the SNARE complex with syntaxin 7, vti1b and endobrevin. STX8 belongs to the syntaxin family. Members of this family are key molecules implicated in diverse vesicle docking and membrane fusion events. STX8 physically interacts with cystic fibrosis transmembrane conductance regulator (CFTR): recombinant syntaxin 8 binds CFTR in vitro and both proteins co-immunoprecipitate in HT29 cells. Syntaxin 8 regulates CFTR-mediated currents in chinese hamster ovary (CHO) cells stably expressing

CFTR and syntaxin 8. STX8 contributes to the regulation of CFTR trafficking and chloride channel activity by the SNARE machinery.

Reference

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Thoreau V. et al., 1999, Biochem Biophys Res Commun. 257 (2): 577-83.
Zhang L. et al., 2009, Cell Mol Neurobiol. 29 (1): 115-21.
Bilan F. et al., 2004, J Cell Sci. 117 (10): 1923-35.

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