Data Sheet (Cat.No.TMPY-03871)

TargetMol

TM4SF2/TSPAN7 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	AI323365;Tm4sf2;PE31;A15;R74651;TALLA;Mxs1;Cd231;1200014P11Rik;tetraspanin 7
Protein Construction:	A DNA sequence encoding the mouse TSPAN7 (Q62283) (Arg113-Met213) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Arg 113
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q62283
Molecular Weight:	13 kDa (predicted); 23-29 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:	> 95 % 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

TALLA-1, also known as TSPAN7, is a member of the transmembrane 4 superfamily Most members of this family are cell-surface proteins that are characterized by the presence of four hydrophobic domains. TALLA-1 gene is associated with X-linked mental retardation and neuropsychiatric diseases such as Huntington's chorea, fragile X syndrome and myotonic dystrophy. TALLA-1 is a cell surface glycoprotein and may have a role in the control of neurite outgrowth. It is known to complex with integrins.

Reference

Berditchevski F. 2002, J Cell Sci. 114 (23): 4143-51.
Castellví-Bel S. et al., 2001, Mol Genet Metab. 72 (2): 104-8.
Abidi FE. et al., 2002, J Med Genet. 39 (6): 430-3.

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