

TM4SF2/TSPAN7 Protein, Cynomolgus, Recombinant (His)

General Information

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| Synonyms: | tetraspanin 7 |
| Protein Construction: | A DNA sequence encoding the cynomolgus TSPAN7 (NP_001244232.1) (Arg113-Met213) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His |
| Species: | Cynomolgus |
| Expression Host: | HEK293 Cells |
| Accession: | F6UX47 |
| Molecular Weight: | 14 kDa (predicted); 20-28 kDa (reducing conditions) |

QC Testing

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| 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/ μ g of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μ m 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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