Data Sheet (Cat.No.TMPY-03978)

TargetMol

TSPAN31 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	tetraspanin 31;SAS
Protein Construction:	A DNA sequence encoding the human TSPAN31 (Q12999) (Cys94-Lys173) was expressed with the Fc region of mouse IgG1 at the N-terminus. Predicted N terminal: Asp
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12999
Molecular Weight:	35.9 kDa (predicted); 40-46 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

TSPAN31 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. They mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TSPAN31 is thought to be involved in growth-related cellular processes. This gene is associated with tumorigenesis and osteosarcoma.

Reference

Wright MD. et al., 1995, Immunol Today. 15 (12): 588-94.
Meltzer PS. et al., 1992, Cell Growth Differ. 2 (10): 495-501.
Jankowski SA. et al., 1995, Genomics. 25 (2): 501-6.

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