

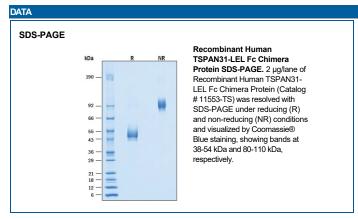
Recombinant Human TSPAN31-LEL Fc Chimera

Catalog Number: 11553-TS

Source	Chinese Hamster Ovary cell line, CHO-derived human TSPAN31 protein				
	MD	Human IgG ₁ (Pro100-Lys330)	IEGR	Human TSPAN31-LEL (Ser93-Lys173) Accession # Q12999.1	
	N-terminus C-terminus				
N-terminal Sequence Analysis	Met				
Structure / Form	Disulfide-linked homodimer				
Predicted Molecular Mass	36 kDa				

SPECIFICATIONS			
SDS-PAGE	38-54 kDa, under reducing conditions		
Activity	Bioassay data are not available.		
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.		
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 500 μg/mL in PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.		



BACKGROUND

Tetraspanin 31, or TSPAN31, belongs to a superfamily of proteins that is characterized by four transmembrane domains, three intracellular domains and two extracellular loops: a small extracellular loop (SEL) and a large extracellular loop (LEL). The extracellular loops form molecular webs that bring together cell surface proteins, facilitating the formation of stable and functional signalling complexes. Tetraspanins form microdomains on the plasma membrane that mediate diverse biological processes including adhesion, cell fusion, immune response, and tumor development (1-4). Human TSPAN31 consists of 210 amino acids, with the LEL region spanning residues 94-173. Within the LEL, human TSPAN31 shares 77% aa 74% aa sequence identity with mouse and rat TSPAN31-LEL, respectively.

References:

- 1. Charrin, S. et al. (2014) J. Cell Sci. 127:3641.
- 2. Yang, J. et al. (2024) Cell. 13:193.
- 3. Hemler, M.E. (2005) Nat. Rev. Mol. Cell Biol. 6:801.
- 4. Kim, T-K. et al. (2015) Biochem. Biophys. Res. Commun. 468:774.

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