

## Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647

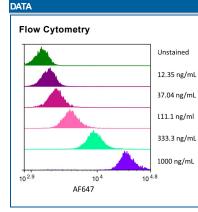
Catalog Number: AFR981

DESCRIPTION				
Source	Mouse myeloma cell line, NS0-derived human TSLPR protein			
	Human TSLPR (Gly25-Lys231) Accession # Q9HC73.1	DIEGRMD	Human IgG <sub>1</sub> (Pro100-Lys330)	
	N-terminus		C-terminus	
N-terminal Sequence Analysis	Gly25			
Structure / Form	Disulfide linked homodimer. Labeled with Alexa Fluor® 647 via amines. Excitation Wavelength: 650 nm Emission Wavelength: 668 nm			
Predicted Molecular Mass	51 kDa (monomer)			

SPECIFICATIONS		
SDS-PAGE	65-75 kDa, reducing conditions.	
Activity	Measured by flow cytometry for its ability to bind anti-human TSLPR Monoclonal Antibody conjugated beads.The concentration of Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647 (Catalog # AFR981) that produces 50% of the binding response is 5.00-50.0 ng/n	
Endotoxin Level	<1.0 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	Supplied as a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

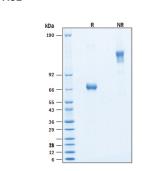
#### PREPARATION AND STORAGE Shipping The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below. Stability & Storage Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after opening. ٠

3 months, -20 to -70 °C under sterile conditions after opening.



Flow cytometry analysis for Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647 staining on anti-human TSLPR Monoclonal Antibody conjugated beads. Streptavidin coated beads conjugated to biotinylated anti-human TSLPR Monoclonal Antibody were stained with the indicated concentrations of Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647 (Catalog # AFR981).

### SDS-PAGE



Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647 Protein SDS-PAGE. 2 µg/lane of Recombinant Human TSLPR Fc Chimera Alexa Fluor® 647 Protein (Catalog # AFR981) was resolved with SDS-PAGE under reducing (R) and nonreducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 65-75 kDa and 130-150 kDa, respectively.

Rev. 10/20/2021 Page 1 of 2



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### BACKGROUND

TSLPR, also named Delta (1) and CRLM-2 (2) (cytokine receptor-like module-2), was originally cloned as a novel type 1 cytokine receptor with similarity to the common gamma chain. It was subsequently identified to be a subunit of the cellular receptor for the IL-7-like cytokine TSLP and termed TSLPR (3). The human TSLPR cDNA encodes a 371 amino acid (aa) residue type 1 membrane protein with a 22 aa residue signal peptide, a 210 aa residue extracellular domain, a 20 aa residue transmembrane domain, and a 119 aa residue cytoplasmic domain (4, 5). The extracellular region contains two fibronectin type III-like domains and a WSXWS-like moutif. The cytoplasmic domain contains a membrane-proximal box 1 motif that is known to be important for association with JAKs (4). Human TSLPR displays 39% identity to mouse TSLPR and 24% identity to the common gamma receptor (4). An alternatively spliced mRNA variant encoding a soluble TSLPR has also been reported in mouse (2). TSLPR expression is ubiquitous in the immune and hematopoietic cells, but is up-regulated in Th2-skewed cells. Cells expression TSLPR and IL-7 R $\alpha$  are co-expressed primarily on monocytes and dendritic cells and at lower levels in lymphoid cells. TSLP has been shown to induce the release of T cell-attracting chemokines from monocytes and enhance the maturation of CD11c<sup>+</sup> dendritic cells (5).

#### References:

- 1. Fujio, K. et al. (2000) Blood 95:2204.
- 2. Hiroyama, T. et al. (2000) Biochem. Biophys. Res. Commun. 272:224.
- 3. Park, L.S. *et al.* (2000) J. Exp. Med. **192**:659.
- 4. Tonozuka, Y. et al. (2001) Cytogenet. Cell Genet. 93:23.
- 5. Reche, P.A. et al. (2001) J. Immunol. 167:336.
- 6. Pandey, A. et al. (2000) Nat. Immunol. 1:59.

### PRODUCT SPECIFIC NOTICES

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Rev. 10/20/2021 Page 2 of 2



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