

Recombinant Human CLEC17A Fc Chimera

Catalog Number: 10147-CL

Chinese Hamster Ovary cell line, CHO-derived human CLEC17A protein				
MD	Human IgG ₁ (Pro100-Lys330)	IEGR	Mouse CLEC17A (Lys194-Cys378) Accession # Q6ZS10-1	
N-terminus C-termin				
Met				
Disulfide-linked homodimer				
48 kDa				
	MD N-terminus Met Disulfide-linked homodimer	MD Human IgG1 (Pro100-Lys330) N-terminus Met Disulfide-linked homodimer	MD Human IgG1 (Pro100-Lys330) IEGR N-terminus Met Disulfide-linked homodimer	

SPECIFICATIONS		
SDS-PAGE	54-66 kDa, under reducing conditions	
Activity	Measured by the ability of the immobilized protein to support the adhesion of the MCF-7 human breast cancer cells. The ED ₅₀ for this effect is 1.5-9 μg/mL.	
Endotoxin Level	<0.10 EU per 1 μ g 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. 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. 	



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BACKGROUND

C-type lectin domain family 17, member A (CLEC17A), also known as Prolectin, is type II transmembrane protein that is expressed mainly on dividing B cells found in the germinal centers of secondary lymphoid organs, including lymph nodes, tonsils, stomach, intestine, appendix and spleen (1, 2). CLEC17A binds preferentially to epithelial rather than to mesenchymal cells, and it behaves as a cell adhesion molecule for epithelial cells (2). It has high specificity towards mannose and was found to form disulfide-linked oligomers (1, 3). Human CLEC17A is synthesized as a 378 amino acid (aa) protein that includes a 172 aa cytoplasmic domain, a 21 aa transmembrane segment, and a 185 aa extracellular domain (ECD). Within the ECD, human CLEC17A shares 84% aa sequence identity with canine CLEC17A. C-type

lectins are Ca^{2+} -depending sugar-binding proteins that are involved in several immune-related and other physiological functions. Presently, 17 groups within the C-type lectin superfamily have been recognized (4), with more C-type lectins being constantly discovered based on the presence of a conserved 115-130 amino acid domain along their sequences - the C-type carbohydrate recognition domain (CRD). However, for most of the recently identified C-type lectins, their interactions with carbohydrates, intracellular functions and molecular mechanisms still remain unclear (3).

References:

- 1. Graham, S. A. et al. (2009) J. Biol. Chem. 284:18537.
- 2. Breiman, A. et al. (2016) Oncotarget 7:14064.
- 3. Koh, G. et al. (2011) BMC Bioinformatics 12:S5.
- 4. Zelensky AN. et al. (2005) FEBS Journal 272:6179.

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