## Recombinant Mouse CLEC10A/CD301 Protein (His Tag)

## Catalog Number: PKSM040531

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Species	Mouse
Source	HEK293 Cells-derived Mouse CLEC10A/CD301 protein Gln 58-Ser 305, with an N-
	terminal His
Calculated MW	30.7 kDa
Observed MW	37 kDa
Accession	NP_001191181.1
Bio-activity	Not validated for activity
Properties	
Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of
	reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
	before lyophilization.
	Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	
	KDa MK R
	116

NDa	NIN	ĸ
116	-	
66.2	-	1000
45.0	-	
35.0	-	-
25.0	-	
18.4	_	
14.4	-	

> 97 % as determined by reducing SDS-PAGE.

## Background

CLEC10A, also known as the macrophage galactose-type calcium-type lectins (MGLs; CD301) constitute a unique class of C-type lectins because of their specificity for galactose and its structural homologues. MGLs/CD301 is a type II transmembrane glycoproteins and is expressed on macrophages and related cells of myeloid origins, particularly immature dendritic cells (DCs). There are 2 homologues: MGL1 and MGL2 (CD301a and CD301b) in mice. MGL1/CD301a induces both the production and secretion of interleukin (IL)-10. MGL1/CD301a plays a protective role against colitis by effectively inducing IL-10 production by colonic lamina propria macrophages in response to invading commensal bacteria.

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