

CD300f/CD300LF Protein, Rat, Recombinant (His & Myc & SUMO)

General Information

Synonyms:	Cd300lf;CD300f;CLM-1;CMRF35-like molecule 1;CD300 antigen-like family member F;Clm1
Protein Construction:	19-181 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q566E6
Molecular Weight:	38.3 kDa (predicted)
AA Sequence:	AQDPVTGPPEVSGYEQGSLTVWCRYGSWWKDYSKYWCRGPKRSSCEIRVETDASERLVKENHVSIRDDQTN FTFTVTMEDLRMSDAGIYWCGITKAGYDHFVHVSINPVPTPTTTSTTTTFTVTTTIVKSTLSTLSTQTSYSDN RYDSGGVGDGNGFLDLS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

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:

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

Acts as an inhibitory receptor for myeloid cells and mast cells. Positively regulates the phagocytosis of apoptotic cells (efferocytosis) via phosphatidylserine (PS) recognition; recognizes and binds PS as a ligand which is expressed on the surface of apoptotic cells. Plays an important role in the maintenance of immune homeostasis, by promoting macrophage-mediated efferocytosis and by inhibiting dendritic cell-mediated efferocytosis. Negatively regulates Fc epsilon receptor-dependent mast cell activation and allergic responses via binding to

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ceramide and sphingomyelin which act as ligands. May act as a coreceptor for interleukin 4 (IL-4). Associates with and regulates IL-4 receptor alpha-mediated responses by augmenting IL-4- and IL-13-induced signaling. Negatively regulates the Toll-like receptor (TLR) signaling mediated by MYD88 and TRIF through activation of PTPN6/SHP-1 and PTPN11/SHP-2. Inhibits osteoclast formation. Induces macrophage cell death upon engagement.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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