Data Sheet (Cat.No.TMPK-00560)

TargetMol

CD300A Protein, Cynomolgus, Recombinant (Avi), Biotinylated

General Information

Synonyms:	IGSF12;Mcipr1;NKRL;IRp60;LMIR1;Pigr4;MAIR-I;CLM-8;CD300a;CLM8;IRC1
Protein Construction:	Leu18-Gln178
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A7N9CE79
Molecular Weight:	19.44 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

CD300a is an inhibitory receptor for mast cells and eosinophils in allergic inflammation (AI); however, the spatiotemporal expression of CD300a and its potential roles in the resolution of AI are still to be determined. CD300a expression on peritoneal cells is regulated from inflammation to resolution. CD300a activation on mouse bone marrow-derived mast cells regulated ALX/FPR2 expression levels following IgE-mediated activation.

Reference

Karra L, et al. Leukocyte CD300a Contributes to the Resolution of Murine Allergic Inflammation. J Immunol. 2018 Nov 15;201(10):2998-3005. doi: 10.4049/jimmunol.1801000. Epub 2018 Oct 12. PMID: 30315138.

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