

CLM-9 Protein, Human, Recombinant (hFc)

General Information

Synonyms: CLM9;NEPMUCIN;CLM-9;CD300 molecule-like family member g;TREM-4;TREM4

Protein Construction: A DNA sequence encoding the human CD300LG (AAH25395.1) (Met1-Arg247) was expressed, fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Leu 19

Species: Human

Expression Host: HEK293 Cells

Accession: AAH25395.1

Molecular Weight: 51.7 kDa (predicted); 70 and 34 kDa (reducing conditions)

QC Testing

Biological Activity: Activity testing is in progress. 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 SDS-PAGE

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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

CLM-9, also known as TREM4, is a receptor which belongs to the TREM family. The TREM family of receptors regulates the activity of various cell types of the immune system including neutrophils, monocyte/macrophages, microglia, and dendritic cells. CLM-9 may mediate L-selectin-dependent lymphocyte rollings. It binds SELL in a calcium dependent manner. CLM-9 also binds lymphocyte which suggests that it functions in lymphocyte adhesion. The major CLM-9 transcript is expressed highly in human heart, skeletal muscle, and placenta. The

mouse protein has been shown to be expressed in capillary endothelial cells. Human CLM-9 mediates the uptake of human IgA2 and mouse IgM.

Reference

Clark GJ, et al. (2009) The CD300 molecules regulate monocyte and dendritic cell functions. *Immunobiology*. 214(9-10):730-6.

Engel K, et al. (2012) Bacterial expression of mutant argininosuccinate lyase reveals imperfect correlation of in-vitro enzyme activity with clinical phenotype in argininosuccinic aciduria. *J Inherit Metab Dis.* 35(1):133-40.

Lamesch P, et al. (2007) hORFeome v3.1: a resource of human open reading frames representing over 10,000 human genes. *Genomics*. 89(3):307-15.

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