

CD43 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	SPN;GPL115;Galgp;Ly-48;CD43;Leukosialin;Sialophorin;A630014B01Rik;LSN
Protein Construction:	Asp20-Gly248
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P15702
Molecular Weight:	23.6 kDa (predicted). Due to glycosylation, the protein migrates to 80-120 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

CD43 is a large transmembrane protein involved in T cell activation. Previous studies of CD43^{-/-} mice in viral models have demonstrated a role for CD43 in Th1/Th2 skewing, activation of Foxp3 Treg, and T cell apoptosis. CD43 (leukosialin) is a large sialoglycoprotein abundantly expressed on the surface of most cells from the hematopoietic lineage. CD43 is directly involved in the contact between cells participating in a series of events such as signaling, adherence and host parasite interactions.

Reference

Alisson-Silva F, et al. CD43 sialoglycoprotein modulates cardiac inflammation and murine susceptibility to Trypanosoma cruzi infection. Sci Rep. 2019 Jun 13;9(1):8628. doi: 10.1038/s41598-019-45138-7. PMID: 31197200; PMCID: PMC6565700.

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