

CD58 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	CD58;LFA3;CD58 molecule
Protein Construction:	A DNA sequence encoding the cynomolgus CD58 (F7HQR6) (Met1-Arg215) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ile 29
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	F7HQR6
Molecular Weight:	23 kDa (predicted); 38-42 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus CD58-His at 10 µg/ml (100 µl/well) can bind Cynomolgus CD2-Fc , The EC50 of Cynomolgus CD2-Fc is 0.06-0.14 µg/ml.
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.

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

CD53 is a member of the transmembrane 4 superfamily, also called the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. These proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD53 is a cell surface glycoprotein that is known to complex with integrins. Familial deficiency of CD53

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gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. CD53 contributes to the transduction of CD2-generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Reference

Rochelle JM. et al., 1993, Int Immunol. 5 (2): 209-16.

Virtaneva KI. et al., 1993, Immunogenetics. 37 (6): 461-5.

Horejsí V. et al., 1991, FEBS Lett. 288 (1-2): 1-4.

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