

CD23 Protein, Human, Recombinant (His)

General Information

Synonyms:	MGC40078;CLEC6;MCL;BLAST-2;CD23A;IGEBF;FCE2;MPCL;CLEC4J;CLECSF8;Fc fragment of IgE receptor II;CD23;CLEC-6
Protein Construction:	Asp48-Ser321
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P06734-1
Molecular Weight:	31.8 kDa (Predicted); 38-45 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
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 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

CD23 is the low-affinity receptor for immunoglobulin (Ig)E and plays important roles in the regulation of IgE responses. CD23 can be cleaved from cell surfaces to yield a range of soluble CD23 (sCD23) proteins that have pleiotropic cytokine-like activities.

Reference

Aubry JP, et al. (1992) CD21 is a ligand for CD23 and regulates IgE production. Nature. 358(6386): 505-7.

Punnonen J, et al. (1993) Interleukin 13 induces interleukin 4-independent IgG4 and IgE synthesis and CD23 expression by human B cells. Proc Natl Acad Sci U S A. 90(8): 3730-4.

Yu P, et al. (1994) Negative feedback regulation of IgE synthesis by murine CD23. Nature. 369(6483): 753-6.

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