

CD52 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	CD52 molecule;CDW52
Protein Construction:	Gly25-Ser36
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P31358
Molecular Weight:	28 kDa (Predicted); 40-45 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/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m 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 μ g/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

CD52, also known as CAMPATH-1 antigen, HE5, and gp20, is a cell surface glycoprotein that can be targeted to induce immune suppression by complement-mediated cell lysis. Mature human CD52 is a 12 amino acid peptide that is tethered to the cell surface with a GPI linkage. CD52 may play a role in carrying and orienting carbohydrate, as well as having a more specific role.

Reference

Piccaluga PP, et al. (2007) Expression of CD52 in peripheral T-cell lymphoma. Haematologica. 92(4): 566-7.

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