Human CD52 / CDW52 Protein (Fc & AVI Tag), Biotinylated

Catalog Number: 15105-H41H-B

General Information

Gene Name Synonym:

CDW52

Protein Construction:

A DNA sequence encoding the human CD52 (NP_001794.2) (Met1-Ser36) was expressed with a c-terminal Fc region of human IgG1 tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.

Source: Human

Expression Host: Human Cells

QC Testing

Biotin/Protein Ratio:

0.7-1 as determined by the HABA assay.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

<1.0 EU per μg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Gly 25

Molecular Mass:

The recombinant human CD52 consists of 265 amino acids and predicts a molecular mass of 29.7 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

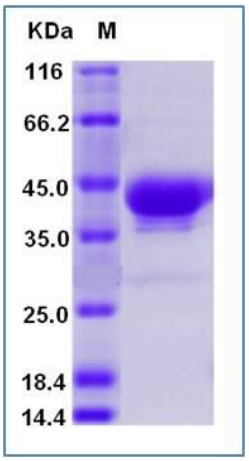
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CD52 / CDW52 is a small glycosylphosphatidylinositol (GPI) anchored glycoprotein. It has a mature peptide comprising only 12 amino acids and is abundantly expressed on human lymphocytes. From the clinical point of view this protein is an important target for therapeutic interventions aimed at leukocyte depletion in hematological malignancies and post-transplant immunosuppression. CD52 / CDW52 may play a role in carrying and orienting carbohydrate. It is an unusually good target for complement-mediated cell lysis.

References

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