

Datasheet for ABIN7274198

CD52 Protein (CD52) (AA 25-36) (mFc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD52
Protein Characteristics:	AA 25-36
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD52 protein is labelled with mFc Tag.

Product Details

Purpose:	Human CD52 Protein
Sequence:	Gly25-Ser36
Characteristics:	Recombinant Human CD52 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus. It contains Gly25-Ser36.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 15.9µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	CD52
Alternative Name:	CD52 (CD52 Products)
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.
Molecular Weight:	27.6 kDa. Due to glycosylation, the protein migrates to 38-48 kDa based on Tris-Bis PAGE result.
UniProt:	P31358

Application Details

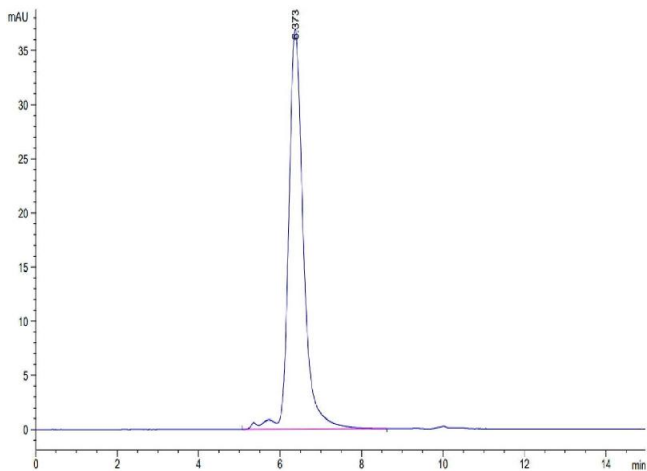
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

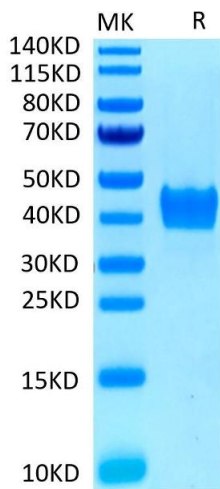
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human CD52 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Human CD52 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .



Surface Plasmon Resonance

Image 3. Human Siglec-10, His Tag captured on CM5 Chip via anti-His antibody can bind Human CD52, mFc Tag with an affinity constant of 15.9μM as determined in SPR assay (Biacore T200).

