

# Human CD38 Protein

Cat. No. CD3-HM238



## Description

<b>Source</b>	Recombinant Human CD38 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Val43-Ile300.
<b>Accession</b>	P28907-1
<b>Molecular Weight</b>	The protein has a predicted MW of 56.6 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

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

## Background

CD38 is highly and uniformly expressed on multiple myeloma (MM) cells, and at relatively low levels on normal lymphoid and myeloid cells, and in some tissues of nonhematopoietic origin. CD38 is a transmembrane glycoprotein with ectoenzymatic activity, and also functions as a receptor and adhesion molecule. Altogether, this has triggered the development of several CD38 antibodies including daratumumab (fully human), isatuximab (chimeric), and MOR202 (fully human).

## Assay Data

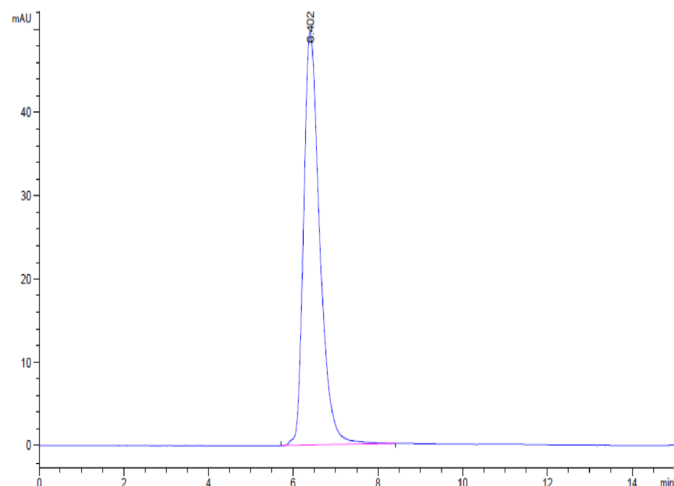
### Bis-Tris PAGE



Human CD38 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

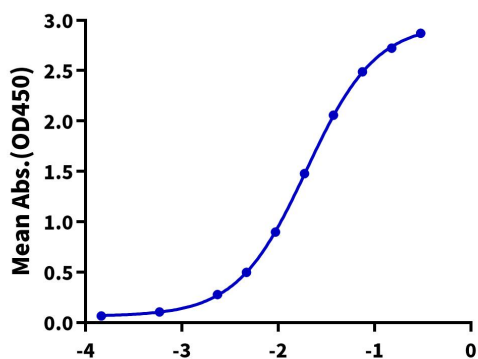
Assay Data



The purity of Human CD38 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human CD38, hFc Tag ELISA**  
0.2µg Human CD38, hFc Tag Per Well



Immobilized Human CD38, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD38 Antibody, hFc Tag with the EC50 of 19.6ng/ml determined by ELISA (QC Test).