

## Recombinant Human CD38 Protein (Va43-Ile300), His-tagged, Biotinylated

Cat. No. CD38-443H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD38 Protein (NP_001766.2) (Va43-Ile300) was produced by HEK293 Cells expression system. This protein was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Va43-Ile300
<b>Description</b>	<p>The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 32 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 38 (CD38), also known as ADP-ribosyl cyclase, is a glycoprotein found on the surface of many immune cells (white blood cells), including CD4+, CD8+, B and natural killer cells. It shares several characteristics with ADP-ribosyl cyclase 2 CD157. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD+ to ADP-ribose. It also functions in cell adhesion, signal transduction and</p>

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	calcium signaling. CD38 has been used as a prognostic marker in leukemia. It can also be used to identify plasma cells.
<b>Predicted N Terminal</b>	Val 43
<b>Form</b>	Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant CD38 consists of 269 amino acids and predicts a molecular mass of 31.3 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
<b>Conjugation</b>	Biotin

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## GENE INFORMATION

<b>Gene Name</b>	CD38 CD38 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD38
<b>Synonyms</b>	CD38; CD38 molecule; CD38 antigen (p45); ADP-ribosyl cyclase 1; T10;
<b>Gene ID</b>	952
<b>mRNA Refseq</b>	NM_001775
<b>Protein Refseq</b>	NP_001766
<b>MIM</b>	107270
<b>UniProt ID</b>	P28907

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