

CD38 Protein-VLP, Human, Recombinant

General Information

Synonyms:	ADPRC1;ADPRC 1;cADPR1
Protein Construction:	A DNA sequence encoding the Human CD38-VLP (Full Length) (P28907) (Met1-Ile300) was expressed.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P28907
Molecular Weight:	34.33 kDa (predicted)

QC Testing

Biological Activity:	Immobilized CD38 Protein-VLP, Human, Recombinant (Cat#TMPY-07041) at 2 µg/mL (100 µL/well) can bind Anti-CD38 Antibody, the EC50 is 3-9 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50mM Hepes, 150mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

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 associating with the immune function of the cell. There are more than 320 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 calcium signaling. CD38 has been used as a prognostic marker in leukemia. It can also be used to identify plasma cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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