

CD38 Protein, Human, Recombinant

General Information

Synonyms:	CD38;Cluster of Differentiation 38
Protein Construction:	Val43-Ile300
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P28907
Molecular Weight:	~35.7 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized CD38, Human at 1.0 µg/ml (100 µl/well) can bind Human CD38 Antibody (38.F2), Mouse with EC 50 =1.640 ng/ml when detected by M6 Goat Anti Mouse (Fc).
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD38 (also referred to as T10 antigen) is a nonlineage-restricted type II transmembrane glycoprotein that has emerged as an intracellular calcium ion mobilizing messenger. It can serve as an ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose. The enzymatic functions of CD38 probably contribute to an array of its immunoregulatory functions. It has been found on the surface of many immune cells (white blood cells), including CD4+, CD8+, B lymphocytes and natural killer cells. Soluble CD38 and the ability of membrane-bound CD38 to become internalized in response to appropriate stimuli suggest that extracellular and intracellular roles for this protein are equally plausible.

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