

## CD93/C1qR1 Protein, Human, Recombinant (His&Avi), Biotinylated

### General Information

Synonyms:	C1QR1;C1q/MBL/SPA receptor;EC5M3;C1qRp;C1qR(p);C1qR;dJ737E23.1;CD93;CDw93;MXRA4
Protein Construction:	Thr22-Lys580
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NPY3
Molecular Weight:	61.2 kDa (predicted). Due to glycosylation, the protein migrates to 90-110 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Biotinylated Human CD93, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human IGFBP7, hFc Tag with the EC50 of 27.9ng/ml determined by ELISA.</li><li>2. Biotinylated Human CD93, His-Avi Tag immobilized on CM5 Chip can bind Human IGFBP-7, His Tag with an affinity constant of 0.17 µM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

CD93 has been shown critical roles in inflammatory and immune diseases. CD93 silencing increased IL-6 and TSLP, but not IL-33 levels in culture supernatants. HDM-induced asthma mice showed significant airway

hyperresponsiveness and inflammation with Th2 cytokine activation, along with decreased CD93 expression in bronchial epithelial cells and lung homogenates but increased serum CD93 levels.

Reference

Park HJ, et al. Soluble CD93 in allergic asthma. Sci Rep. 2020 Jan 15;10(1):323. doi: 10.1038/s41598-019-57176-2. PMID: 31941986; PMCID: PMC6962376.

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