

# Recombinant Human IgD Protein

Catalog No.: RPT0021 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3495	P01880-1

### Tags

C-His

### Synonyms

IGHD; IgD ;Ig delta chain C region;Ig delta chain C region NIG-65;Ig delta chain C region WAH ;Immunoglobulin heavy constant delta

## Product Information

Source	Purification
HEK293 cells	PBS

Calculated MW	Observed MW
31.89 kDa	45-60 kDa

### Endotoxin

&lt;0.01EU/μg

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

IgD is the major antigen receptor isotype on the surface of most peripheral B-cells, where it is coexpressed with IgM. The membrane-bound IgD (mIgD) induces the phosphorylation of CD79A and CD79B by the Src family of protein tyrosine kinases. Soluble IgD (sIgD) concentration in serum below those of IgG, IgA, and IgM but much higher than that of IgE. IgM and IgD molecules present on B cells have identical V regions and antigen-binding sites. After the antigen binds to the B-cell receptor, the secreted form sIgD is shut off. IgD is a potent inducer of TNF, IL1B, and IL1RN. IgD also induces release of IL6, IL10, and LIF from peripheral blood mononuclear cells. Monocytes seem to be the main producers of cytokines in vitro in the presence of IgD.

## Basic Information

### Description

Recombinant Human IgD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg99-Lys384) of Human IgD (Accession #P01880-1) fused with a His tag at the C-terminus.

### Bio-Activity

### Storage

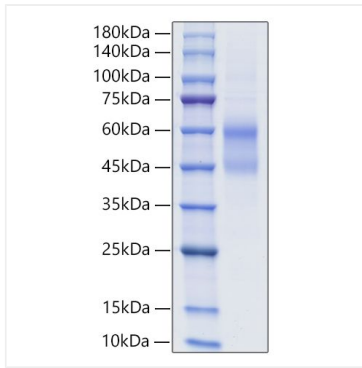
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IgD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-60kDa.