

Recombinant Human IgD Protein

Catalog No.: RPT0021

Sequence Information

Species Gene ID

Human 3495

Swiss Prot Tags

P01880-1 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 ≥ 85% as
determined by
SDS-PAGE.

Calculated MW Observed MW

31.89 kDa 45-60 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL
method

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

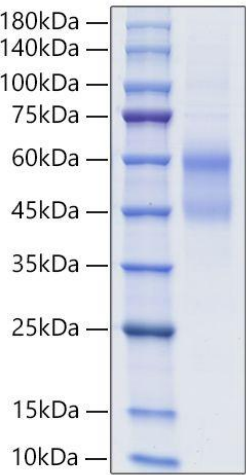
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Validation Data



Recombinant Human IgD Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.