Recombinant Human IgD Protein

Catalog No.: RPT0021

Sequence Information

Species
Human

Gene ID
3495

Swiss Prot
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
HEK293 cells

Purification
≥ 85% as determined by SDS-PAGE.

Calculated MW
31.89 kDa

Observed MW
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 stablizer (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℃

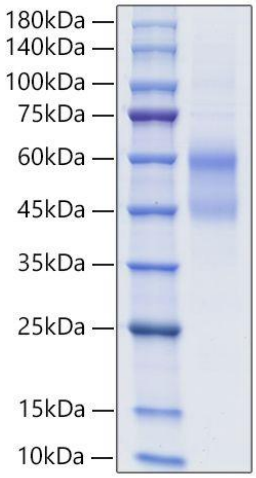
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



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

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