# Recombinant Human CD16b/FCGR3B Protein (aa 1-200, His Tag)

**Catalog Number: PKSH031291**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

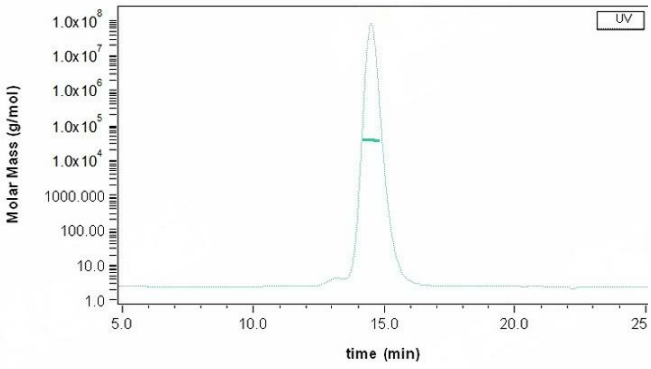
## Description

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|---|---|
| **Species** | Human |
| **Source** | HEK293 Cells-derived Human CD16b/FCGR3B protein Met 1-Ser 200, with an C-terminal His |
| **Calculated MW** | 22.2 kDa |
| **Observed MW** | 50-55 kDa |
| **Accession** | NP_000561.3 |
| **Bio-activity** | Not validated for activity |

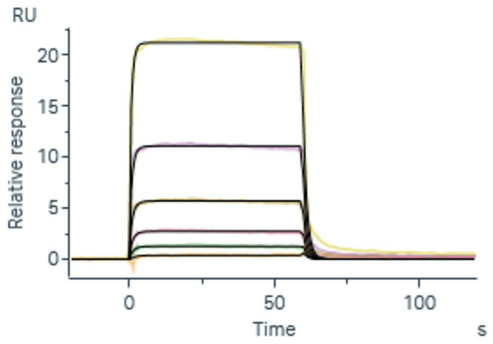
## Properties

| | |
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




The purity of Human CD16b / FCGR3B Protein (His Tag, NA2 allotype) (Cat: PKSH031291) is more than 95% and the molecular weight of this protein is around 33-43 kDa verified by SEC-MALS.




Recombinant Human CD16b/FCGR3B/Fc gamma RIIIB Protein (NA2), His Tag (Cat: PKSH031291) captured on CM5 chip via Anti-his antibody, can bind Rituximab derived Anti-CD20 antibody, Human IgG1 with an affinity constant of 2.800 μM as determined in an SPR assay (Biacore 8K).

## Background

The asialoglycoprotein receptor (ASGPR), an endocytotic cell surface receptor expressed by hepatocytes, is triggered by triantennary binding to galactose residues of macromolecules such as asialoorosomucoid (ASOR). ASGPR belongs to the long-form subfamily of the C-type/Ca2+ dependent lectin family. It is a complex of two noncovalently-linked and highly homologous subunits, a major 42 kDa glycoprotein ASGPR1(MHL-1) and a minor 51 kDa glycoprotein ASGR2 (MHL-2). ASGPR1 is synthesized as a type II transmembrane protein that contains a cytosolic N-terminal domain, a single transmembrane segment, and an extracellular domain which contains two important structural regions. The first is a stalk domain that contributes to noncovalent oligomerization, and the second is a Ca2+-dependent carbohydrate binding domain at the very C-terminus that is unusually stabilized by three ions. The research regarded that ASGPR1 could be targeted for anti- hepatitis B virus (HBV) drug development.


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