## Recombinant Human CD16b/FCGR3B Protein (His Tag)

## Catalog Number: PKSH031292

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

CHO Cells-derived Human CD16b/FCGR3B protein Met 1-Ser 200, with an C-terminal     His     Calculated MW   22.2 kDa     Observed MW   38-43 kDa     Accession   NP_000561.3     Bio-activity   Not validated for activity     Properties   Properties     Purity   > 99 % as determined by reducing SDS-PACE.     indotoxin   < 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 °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.     Cormulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data   This     KDa MK   R     116   66.2     45.0   45.0	Description	
His Calculated MW 22.2 kDa 38-43 kDa Accession NP_000561.3 Bio-activity Not validated for activity Properties Purity > 99 % as determined by reducing SDS-PAGE. Cancer ally, lyophilized protein as determined by the LAL method. Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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. Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information. Data KDa MK R 116 66.2 45.0	Species	Human
Calculated MW   22.2 kDa     Dbserved MW   38.43 kDa     Accession   NP_000561.3     Bio-activity   Not validated for activity     Properties	Source	CHO Cells-derived Human CD16b/FCGR3B protein Met 1-Ser 200, with an C-terminal
Discreed MW   38-43 kDa     Accession   NP_000561.3     Bio-activity   Not validated for activity     Properties   Properties     Purity   > 99 % as determined by reducing SDS-PAGE.     Chdotoxin   < 1.0 EU per µg of the protein as determined by the LAL method.     Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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.     Lyophilized from sterile PBS, pH 7.4   Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.   Please refer to the printed manual for detailed information.     Data   XDa MK   R     116   66.2     45.0   45.0		His
Accession   NP_000561.3 Not validated for activity     Properties     Purity   > 99 % as determined by reducing SDS-PAGE.     Condotoxin   < 1.0 EU per µg of the protein as determined by the LAL method.     Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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. Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Data     KDa MK   R     116 66.2 45.0   116 66.2 45.0	Calculated MW	22.2 kDa
Bio-activity   Not validated for activity     Properties     Purity   > 99 % as determined by reducing SDS-PAGE.     Endotoxin   < 1.0 EU per µg of the protein as determined by the LAL method.     Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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.     Cormulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   45.0	Observed MW	38-43 kDa
Properties     Purity   > 99 % 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 °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.     Cyophilized from sterile PBS, pH 7.4   Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.   Please refer to the printed manual for detailed information.     Data   KDa MK   R     116   66.2     45.0   45.0	Accession	—
Purity   >99% as determined by reducing SDS-PAGE.     chdotoxin   <1.0 EU per μg of the protein as determined by the LAL method.     Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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.     Cormulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   116	<b>Bio-activity</b>	Not validated for activity
Cholotoxin   < 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 °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.     Lyophilized from sterile PBS, pH 7.4   Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.   Please refer to the printed manual for detailed information.     Data   KDa MK   R     45.0   Info	Properties	
Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to °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.     Stormulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   116	Purity	> 99 % as determined by reducing SDS-PAGE.
°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.     Lyophilized from sterile PBS, pH 7.4   Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.   Please refer to the printed manual for detailed information.     Data   KDa MK   R     116   66.2     45.0   45.0	Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Shipping   reconstituted samples are stable at < -20°C for 3 months.     This product is provided as lyophilized powder which is shipped with ice packs.     Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   45.0	Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -8
Shipping   This product is provided as lyophilized powder which is shipped with ice packs.     Formulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   45.0		°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of
Formulation   Lyophilized from sterile PBS, pH 7.4     Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   6		reconstituted samples are stable at $< -20^{\circ}C$ for 3 months.
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.     Please refer to the specific buffer information in the printed manual.     Please refer to the printed manual for detailed information.     Data     KDa MK   R     116   66.2     45.0   6	Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Acconstitution   before lyophilization. Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information.     Data     KDa MK   R 116 66.2 45.0	Formulation	Lyophilized from sterile PBS, pH 7.4
Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information. Data KDa MK R 116 66.2 45.0		Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
Reconstitution Please refer to the printed manual for detailed information.   Data KDa MK R   116 66.2   45.0 60		before lyophilization.
Data KDa MK R 116 66.2 45.0		Please refer to the specific buffer information in the printed manual.
KDa MK R 116 66.2 45.0	Reconstitution	Please refer to the printed manual for detailed information.
116 66.2 45.0	Data	
66.2 45.0		KDa MK R
45.0		116
		66.2
		45.0
35.0		35.0
25.0		25.0
18.4		18.4
14.4		

> 99 % as determined by reducing SDS-PAGE.

## Background

## **Elabscience**®

The cluster of differentiation (CD) system is commonly used as cell markers in immunophynotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 24, also known as signal transducer CD24 or heat stable antigen CD24 (HSA), is a mucin-type glycosylphosphatidylinositol-linked glycoprotein expressed on the surface of B-cells, differentiating neuroblasts and many tumors. It is involved in molecular adhesion and metastatic tumor spread and serve as a normal receptor for P-selectin. The CD24 / P-selectin pathway could be important in dissimenating of tumor cells by facilitating the interaction with platelet and endothelial cells. It has also been considered as a tumor marker. High rate of CD24 expressions have been found in epithelial ovarian cancer, breast cancer, non-small cell lung cancer, prostate cancer and pancreatic cancer.