A Reliable Research Partner in Life Science and Medicine

Recombinant Rat FCGR1A/CD64 Protein (His Tag)

Catalog Number: PKSR030404

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

Description

Species Rat

Source HEK293 Cells-derived Rat FCGR1A/CD64 protein Met 1-Pro 285, with an C-terminal

His

Calculated MW 31.6 kDa Observed MW 40-42 kDa Accession NP 001094306.1

Immobilized Rat CD64-his at 10 μg/ml (100 μl/well) can bind biotinylated human **Bio-activity**

IgG1, The EC₅₀ of biotinylated human IgG1 is 0.04-0.08 μg/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 Storage

°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.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping

Lyophilized from sterile PBS, pH 7.4 Formulation

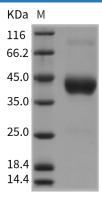
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Elabscience Bionovation Inc.



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High affinity immunoglobulin gamma Fc receptor I, also known as FCGR1 and CD64, is an integral membraneglycoprotein and a member of the immunoglobulin superfamily. CD64 is a high affinity receptor for the Fc region of IgG gamma and functions in both innate and adaptive immune responses. Receptors that recognize the Fc portion of IgG function in the regulation of immune response and are divided into three classes designated CD64, CD32, and CD16. CD64 is structurally composed of asignal peptidethat allows its transport to the surface of a cell, threeextracellularimmunoglobulin domains of the C2-type that it uses to bind antibody, a hydrophobictransmembrane domain, and a short cytoplasmic tail. CD64 is constitutively found on only macrophages and monocytes, but treatment of polymorphonuclear leukocytes with cytokines like IFNγand G-CSFcan induce CD64 expression on these cells. The inactivation of the mouse CD64 resulted in a wide range of defects in antibody Fc-dependent functions. Mouse CD64 is an early participant in Fc-dependent cell activation and in the development of immune responses.

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