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Recombinant Human CD32b/FCGR2B protein (His Tag)

Catalog Number: PDMH100113

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

Description

Species Human

Source HEK293 Cells-derived Human CD32b/FCGR2B protein Thr43-Pro217, with an C-

terminal His

Calculated MW 19.1 kDa
Observed MW 30-35 kDa
Accession P31994

Bio-activity Not validated for activity

Properties

Purity > 90% as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU/mg 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.

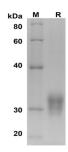
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human CD32b/FCGR2B proteins, 2µg/lane of Recombinant Human CD32b/FCGR2B proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 30-35 KD.

Background

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Fc γ RIIB is a low affinity receptor that recognizes the Fc portion of IgG. The human CD32 group consists of Fc γ RIIA, Fc γ RIIB, and Fc γ RIIC proteins that share 94-99% sequence identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. Fc γ RII protein is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Fc γ RIIB has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM) and delivers an inhibitory signal upon ligand binding. Ligation of Fc γ RIIB on B cells dow n-regulates antibody production and in some circumstances may promote apoptosis. Co-ligation of Fc γ RIIB on dendritic cells inhibits maturation and blocks cell activation. Fc γ RIIB may also be a target for monoclonal antibody therapy for malignancies. Fc γ RIIB plays an important negative-regulating role through modulating the signals from activation receptors.