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Recombinant Human CD16a/FCGR3A Protein (His Tag)

Catalog Number: PKSH032420

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

Description

Species Human

Source HEK293 Cells-derived Human CD16a; FCGR3A protein Gly17-Gln208, with an C-

terminal His

Calculated MW22.7 kDaObserved MW35-50 kDaAccessionP08637

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 a 0.2 μm filtered solution of PBS, pH 7.4.

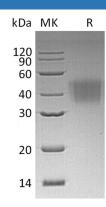
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

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

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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Receptors for the Fc region of immunoglobin $G(Fc\gamma R)$ are divided into three classes and $Fc\gamma RIII$ is a multifunctional; lo w/intermediate affinity receptor. In humans; $Fc\gamma RIII$ is expressed as two distinct forms ($Fc\gamma RIIIA$ and $Fc\gamma RIIIB$) that are encoded by two different but highly homologous genes in a cell type-specific manner. $Fc\gamma RIIIB$ is a low-affinity; GPI-linked receptor expressed by neutrophils and eosinophils; whereas $Fc\gamma RIIIA$ is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes; natural killer (NK) cells; monocytes; and macrophages. The $Fc\gamma RIIIA$ receptor is involved in phagocytosis; secretion of enzymes; inflammatory mediators; antibody-dependent cellular cytotoxicity (ADCC); mast cell degranulation; and clearance of immune complexes. $Fc\gamma RIIIA$ has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections; systemic lupus erythematosus; and alloimmune neonatal neutropenia. In humans; it is a 50 - 70 kD type I transmembrane activating receptor.