Recombinant Mouse CD32/FCGR2B Protein (His Tag)

Catalog Number: PKSM040902

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

Description

Species	Mouse
Source	HEK293 Cells-derived Mouse CD32/FCGR2B protein Met 1-Arg 217, with an C-terminal His
Calculated MW	21.7 kDa
Observed MW	35-40 kDa
Accession	NP_001070657.1
Bio-activity	Immobilized mouse FCGR2B-His (CD32) at 10 μg/ml (100 μl/well) can bind biotinylated human IgG1, The EC_{50} of biotinylated human IgG1 is 0.13-0.29 μg/ml.

Properties

Purity	> 98 % 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 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

> 98 % as determined by reducing SDS-PAGE.

Background

Receptors for Fc portion of IgG (Fcγ Rs) are members of the Ig superfamily, and are divided into three classes designated Fcγ RI (CD64), Fcγ RII (CD32), and Fcγ RIII (CD16). CD32 protein is a low affinity receptor for IgG that binds only IgG immune complexes and is expressed on a diverse range of cells such as monocytes, macrophages, neutrophils, eosinophils, platelets, and B cells. Human CD32 class is encoded by three closely related genes, and designated Fcγ RII A, B, and C which share 94-99% amino acid identity in their extracellular domains but differ substantially in their transmembrane and cytoplasmic domains. CD32 is involved in a number of immune responses including antibody-dependent cell-mediated cytotoxicity, clearance of immune complexes, release of inflammatory mediators, and regulation of antibody production.

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