Recombinant Mouse CD40 Protein(Fc Tag)

Catalog Number: PDMM100067

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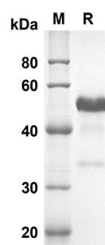
Description

Species	Mouse
Source	Mammalian-derived Mouse CD40 proteins Leu20-Arg193, C-terminal Fc
Mol_Mass	44.0 kDa
Accession	P27512-1
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 ℃. 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 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 Mouse CD40 proteins, 2 μg/lane of Recombinant Mouse CD40 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 44.0 KD

Background

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.

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