

Recombinant Human CD40/TNFRSF5 Protein (mFc Tag)

Catalog No. PKSH033724

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

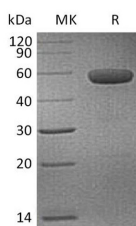
Description

Synonyms	Tumor Necrosis Factor Receptor Superfamily member 5;B-Cell Surface Antigen CD40;Bp50;CD40L Receptor;CDw40;CD40;TNFRSF5
Species	Human
Expression Host	HEK293 Cells
Sequence	Glu21-Arg193
Accession	P25942
Calculated Molecular Weight	45.7 kDa
Observed molecular weight	50-65 kDa
Tag	C-mFc
Bioactivity	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% Tween80 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

CD40 is a Type I Transmembrane Glycoprotein that belongs to the TNF Receptor Superfamily. CD40 is expressed in B

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cells; follicular dendritic cells; dendritic cells; activated monocytes; macrophages; endothelial cells; vascular smooth muscle cells; and several tumor cell lines. The extracellular domain of CD40 is characterized by Cysteine rich repeat regions. Interaction of CD40 with its ligand (CD40L) leads to aggregation of CD40 molecules; which in turn interact with cytoplasmic components to initiate signaling pathways. Several different TRAF proteins (adaptor proteins) have been identified to serves as mediators of the signal transduction. CD40 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.