Recombinant Human CD27/TNFRSF7 Protein (His Tag)

Catalog Number: PKSH031925

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

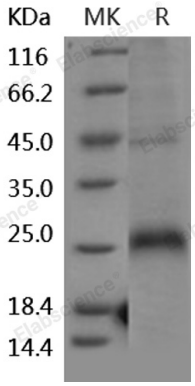
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human CD27/TNFRSF7 protein Met 1-Ile192, with an C-terminal His
Calculated MW	20.7 kDa
Observed MW	27 kDa
Accession	P26842
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human CD27-his at 10 μg/mL (100 μl/well) can bind biotinylated human CD70-Fc, The EC_{50} of biotinylated human CD70-Fc is 57-85 ng/mL.

Properties

Purity	> 85% 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 sterile 20 mM Tris, 500 mM NaCl, 10% glycerol, 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



> 85 % as determined by reducing SDS-PAGE.

Background

CD27; also known as TNFRSF7; is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage; and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a type I transmembrane glycoprotein of about 55 kDa existing as disulfide-linked homodimer; CD27 has been shown to play roles in lymphoid proliferation; differentiation; and apoptosis. It has important role in generation of T cell immunity; and is an apparently robust marker for normal memory B cells. It is a T and B cell co-stimulatory molecule; the activity of CD27 is governed by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity; and meanwhile; plays a key role in regulating B-cell differentiation; activation and immunoglobulin synthesis.

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