

Recombinant Mouse CD27/TNFRSF7 Protein (His Tag)

Catalog Number:PKSM040859



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

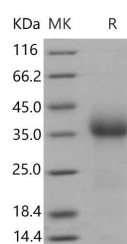
Description

Synonyms	CD27 antigen;CD27L receptor;T-cell activation antigen CD27;Tumor necrosis factor receptor superfamily member 7;S152;Tnfrsf7;Tp55
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Arg 182
Accession	NP_001028298.1
Calculated Molecular Weight	19.6 kDa
Observed molecular weight	35 kDa
Tag	C-His
Bioactivity	Immobilized recombinant mouse CD27 at 2 µg/ml (100 µl/well) can bind human CD70 with a linear range of 78-1250 pg/ml.

Properties

Purity	> 96 % 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 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



> 96 % 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

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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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