

Recombinant Human CD27/TNFRSF7 Protein (His & Fc Tag)(Active)



Catalog Number:PKSH031926

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

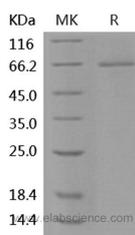
Description

Synonyms	S152;S152.LPFS2;S152.LPFS2;T14;TNFRSF7;Tp55
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ile 192
Accession	NP_001233.1
Calculated Molecular Weight	47.2 kDa
Observed molecular weight	65 kDa
Tag	C-His & C-Fc
Bioactivity	Measured by its ability to bind with recombinant human CD70. Immobilized recombinant human CD27 at 2 µg/ml (100 µl/well) can bind biotinylated human CD70 with a linear range of 0.39-12.5 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	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
Reconstitution	Please refer to the printed manual for detailed information.

Data



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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