

Recombinant Mouse CD80/B7-1 Protein (His Tag)

Catalog No. PKSM041219

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

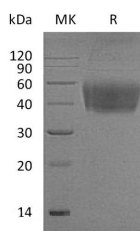
Description

Synonyms	T-lymphocyte activation antigen CD80;Activation B7-1 antigen;B7;CD80;Cd28l;Ly-53;Ly53;MIC17;TSA1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Val38-Asn246
Accession	Q00609
Calculated Molecular Weight	24.6 kDa
Observed molecular weight	38-55 kDa
Tag	C-His
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

Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily which plays key,

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yet distinct roles in the activation of T cells. Mouse CD80 consists of an extracellular domain (ECD) with two immunoglobulin-like domains, transmembrane segment, and cytoplasmic domain. B7-1/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response.