

4-1BB/CD137/TNFRSF9 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	ILA;CD137;4-1BB ligand receptor;T-cell antigen 4-1BB homolog;CDw137;Tumor necrosis factor receptor superfamily member 9;TNFRSF9;T-cell antigen ILA
Protein Construction:	Leu24-Gln186
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q07011
Molecular Weight:	18.1 kDa (Predicted); 35-40 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human 4-1BB, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Human 4-1BB Ligand Trimer, hFc Tag with the EC50 of 3.3 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

4-1BB, is also known as CD137, is a type 2 transmembrane glycoprotein receptor belonging to the TNF superfamily. CD137 can be expressed by activated T cells, but to a larger extent on CD8 than on CD4 T cells. In addition, CD137 expression is found on dendritic cells, B cells, follicular dendritic cells, natural killer cells, granulocytes and cells of blood vessel walls at sites of inflammation.

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