

## 4-1BB/CD137/TNFRSF9 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	CDw137;ILA;4-1BB ligand receptor;T-cell antigen 4-1BB homolog;T-cell antigen ILA;TNFRSF9;CD137
Protein Construction:	Leu24-Gln186
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A9YYE7
Molecular Weight:	26-35 KDa (reducing condition)
AA Sequence:	Leu24-Gln186

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled 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

Tumor necrosis factor receptor superfamily member 9(TNFRSF9), also known as CD137 and 4-1BB, is an inducible T cell surface protein belonging to the tumor necrosis factor receptor superfamily. It is a single-pass type I membrane protein which contains 4 TNFR-Cys repeats. The human and mouse proteins share 60% amino acid sequence identity. CD137 is expressed by mesenchymal cells, including endothelial cells, chondrocytes, and cells

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of the central nervous system. CD137 is also broadly expressed by cells of the human immune system, is broadly expressed by cells of the human immune system, including activated CD8+ and CD4+ T cells, activated natural killer (NK) cells, follicular dendritic cells (FDCs) and monocytes. CD137 has diverse roles in the immune response, the one key function is to promote the survival of both T cells and dendritic cells by binding the cognate ligand CD137L (4-1BBL).

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