

## Product datasheet for **TP728295L**

### Recombinant 4-1BBL (4-1BB ligand), Mouse

#### Product data:

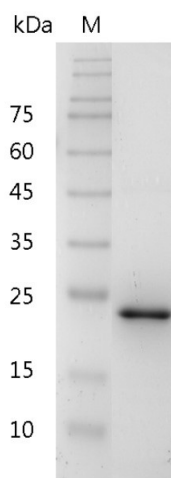
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|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Recombinant 4-1BBL (4-1BB ligand), Mouse  |
| <b>Species:</b>                              | Mouse   |
| <b>Expression Host:</b>                      | E. coli   |
| <b>Expression cDNA Clone or AA Sequence:</b> | MRTEPRPALTTTSPNLGTRENNADQVTPVSHIGCPNTTQQGSPVFAKLLAKNQASLCNTTLNWHSDGAGSSYLSQGLRYEEDKKELVVDSPGLYYVFLELKLSPFTNTGCHKVQGWVSLVLQAKPQVDDFDNLALTVE LFPCSMENKLVDRSWSQLLLLKAGHRLSVGLRAYLHGAQDAYRDWELSYPNNTTSFGLFLVKPDNPWE with polyhistidine tag at the C-terminus.   |
| <b>Tag:</b>                                  | His Tag (C-term)  |
| <b>Predicted MW:</b>                         | The protein has a calculated MW of 23.9 kDa. The protein migrates as 24 kDa under reducing condition (SDS-PAGE analysis).   |
| <b>Purity:</b>                               | >95% as determined by SDS-PAGE.   |
| <b>Buffer:</b>                               | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.  |
| <b>Bioactivity:</b>                          | Measure by its ability to induce IL-2 secretion in mouse T cells in the presence of the anti-CD3 antibody. The ED <sub>50</sub> for this effect is <0.05 µg/mL.   |
| <b>Endotoxin:</b>                            | <0.1 EU per 1 µg of the protein by the LAL method.  |
| <b>Reconstitution Method:</b>                | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| <b>Applications:</b>                         | Cell culture  |
| <b>Storage:</b>                              | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.                        |
| <b>UniProt ID:</b>                           | <a href="#">P41274</a>  |
| <b>Synonyms:</b>                             | 4-1BB, 4-1BB-, 4-1BB-L, 4-1BBL, AI848817, Cd137, Cd137l, Ly6, Ly63l, tumor necrosis factor (ligand) superfamily, member 9 , Tnfsf9  |



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**Summary:**

4-1BB ligand (4-1BBL) is a type II transmembrane protein that is part of the tumor necrosis factor (TNF) ligand family. As an inducible co-stimulatory molecule, it presents on several antigen presenting cell (APC) types, including B cells, macrophages and DCs. The interactions between 4-1BB and 4-1BBL trigger pleiotropic effects on the immune response including antigen presenting process, proliferation of CD4 and CD8 positive T-cells, as well as cytokine secretion from T-cells through NF $\kappa$ B, c-Jun, and p38 downstream signal pathways activation. Therefore, 4-1BB and 4-1BBL are recently used for the immunotherapy of cancer.

**Product images:**

SDS- PAGE analysis of recombinant mouse 41BBL