# Human 4-1BB/TNFRSF9 Protein

Catalog # 41BB-HP004 Form: Lyophilized

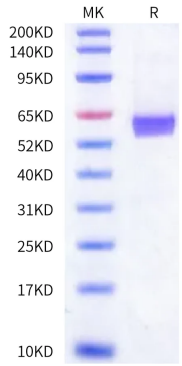
## Product Details

| | |
|---|---|
| **Product description** | Recombinant Human 4-1BB/TNFRSF9 Protein is expressed in HEK293 cells with an hFc (IgG1) tag at the C-terminus. It contains amino acid residues Asp119-Gly159 (UniProt accession: Q07011). |
| **Molecular aliases** | CD137; TNFRSF9; 4-1BB ligand receptor; 41BB; 4-1BB; CDw137; FLJ43501; ILA; T cell antigen ILA |
| **Expression system** | HEK293 |
| **Molecular weight** | The protein has a predicted MW of 30.46 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result. |
| **Purity** | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |
| **Endotoxin** | Less than 1 EU per μg 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. |
| **State** | Lyophilized |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |

## Protein Integrity

### Bis-Tris PAGE

Representative product-page data




**Reported result**

Human 4-1BB on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.