# Biotinylated Human B7-2/CD86 Protein

**Cat. No.** B72-HM486B

## Description

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| **Source** | Recombinant Biotinylated Human B7-2/CD86 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. |
| | It contains Leu26-Pro247. |
| **Accession** | P42081-1 |
| **Molecular Weight** | The protein has a predicted MW of 28.2 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |

## Formulation and Storage

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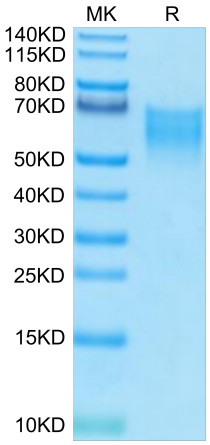
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

B7-1 and B7-2 are homologous costimulatory ligands expressed on the surface of antigen presenting cells (APCs). Binding of these molecules to the T cell costimulatory receptors, CD28 and CTLA-4, is essential for the activation and regulation of T cell immunity. B7-1 and B7-2 do not form hetero-oligomers, underscoring the biological relevance of dimeric and monomeric state of B7-1 and B7-2, respectively.

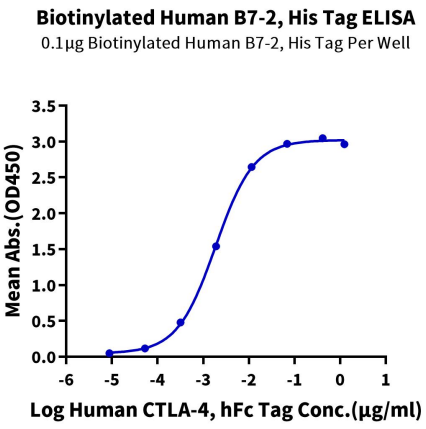
## Assay Data

### Tris-Bis PAGE




Biotinylated Human B7-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data




Immobilized Biotinylated Human B7-2, His Tag at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Human CTLA-4, hFc Tag with the EC50 of 1.9ng/ml determined by ELISA.