# Mouse B7-1/CD80 Protein

**Cat. No.** B71-MM180

## Description

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| **Source** | Recombinant Mouse B7-1/CD80 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Val38-Asn246. |
| **Accession** | Q00609-1 |
| **Molecular Weight** | The protein has a predicted MW of 24.6 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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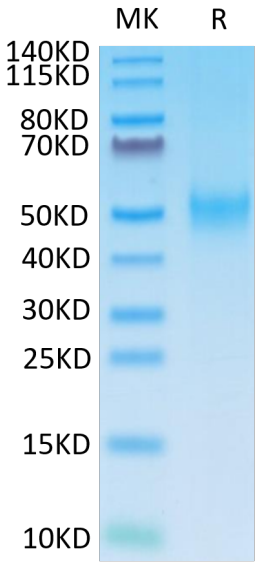
| **Formulation** | Supplied as 0.22μm filtered solution in PBS (pH 7.4). |
| **Storage** | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4.

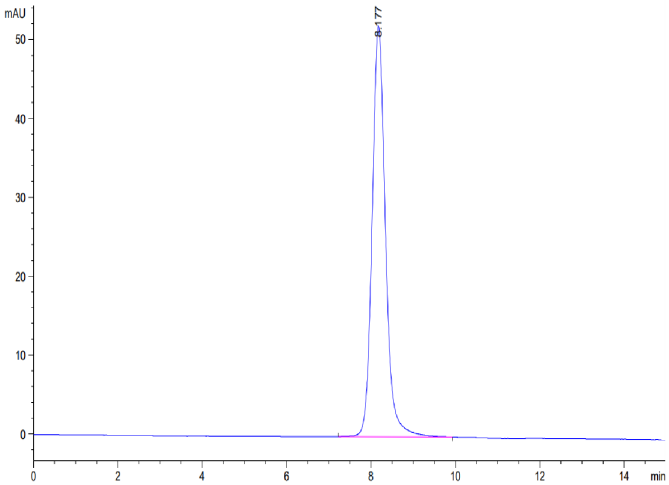
## Assay Data

**Bis-Tris PAGE**




Mouse B7-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**




The purity of Mouse B7-1 is greater than 95% as determined by SEC-HPLC.