

## Recombinant Human CTLA-4/CD152 Protein

RPCB0591

### Protein Information

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|-----------------------|----------|------------------------|-----------|
| <b>Size:</b>          | 100 µg   | <b>Tag:</b>            | C-hFc     |
| <b>Reactivity:</b>    | Human    | <b>Expressed Host:</b> | E. coli   |
| <b>Calculated MW:</b> | 40.1 kDa | <b>Observed MW:</b>    | 50-55 kDa |

### Background

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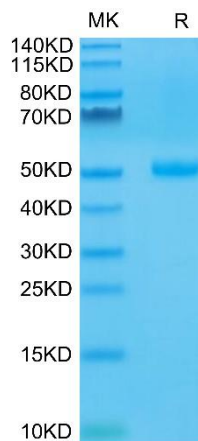
CTLA-4 (cytotoxic T-lymphocyte-associated protein 4), also known as CD152, is a protein receptor that, functioning as an immune checkpoint, downregulates immune responses. CTLA4 is constitutively expressed in regulatory T cells but only upregulated in conventional T cells after activation – a phenomenon which is particularly notable in cancers. It acts as an "off" switch when bound to CD80 or CD86 on the surface of antigen-presenting cells.

### Properties

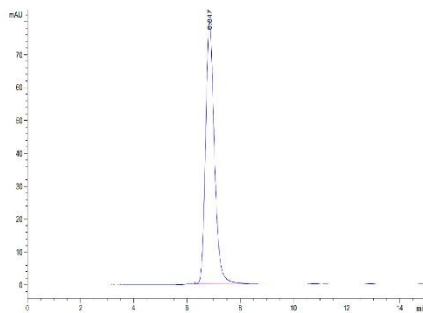
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|---------------------|--|
| <b>Synonyms:</b>    | CTLA4, CD152, ICOS, CELIAC3, GRD4, GSE, ALPS5, IDDM12  |
| <b>Gene ID:</b>     | 1493   |
| <b>Endotoxin:</b>   | < 1 EU/µg of the protein by LAL method.  |
| <b>Description:</b> | High quality, high purity and low endotoxin recombinant Recombinant Human CTLA-4/CD152 Protein (RPCB0591), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.              |
| <b>Purity:</b>      | ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.  |
| <b>Storage:</b>     | Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. |

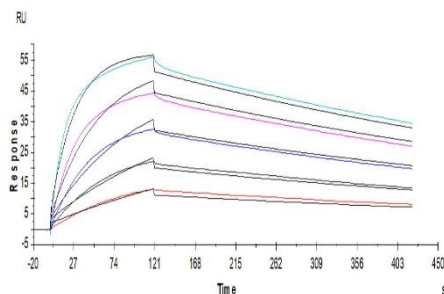
## Validation Data



Recombinant Human CTLA-4/CD152 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human CTLA-4 is greater than 95% as determined by SEC-HPLC.



Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA-4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).