

**CTLA-4**  
Catalog # PVGS1597**Specification**

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**CTLA-4 - Product Information**

Primary Accession [Q6GTR6](#)  
Species  
Mouse

Sequence  
Ala37-Phe162

Purity  
> 90% as analyzed by SDS-PAGE

Endotoxin Level  
< 1 EU/ µg of protein by gel clotting method

Biological Activity  
Immobilized Mouse B7-1/CD80 Protein, His Tag at 2.0 µg/ml can bind CTLA-4, mFc, Mouse with EC<sub>50</sub>=12.57 ng/ml when detected by M6 Goat Anti Mouse FC.

Expression System  
CHO

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS.**

Reconstitution  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

Storage & Stability  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**CTLA-4 - Additional Information**

**Target Background**  
CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4) is also known as CD152, is an Inhibitory receptor acting as a major negative regulator of T-cell responses. CTLA-4 is a member of the immunoglobulin superfamily, which is expressed on the surface of T cells and transmits an inhibitory signal to T cells. CTLA-4 and CD28 are homologous receptors expressed by both CD4+ and CD8+ T cells, which mediate opposing functions in T-cell activation. Both receptors share a pair of ligands expressed on the surface of antigen-presenting cells (APCs). The affinity of CTLA-4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory co-receptor CD28.

## **CTLA-4 - Protein Information**

### **CTLA-4 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CTLA-4 - Images**