

# CTLA-4

Catalog # PVGS1552

## Product Information

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<b>Primary Accession Species</b>	<a href="#">P16410</a> Human
<b>Sequence</b>	Ala37-Phe162
<b>Purity</b>	> 98% as analyzed by SDS-PAGE
<b>Endotoxin Level Biological Activity</b>	<p>Assay #1: Measured by its ability to inhibit IL-2 secretion by co-culturing stimulated Jurkat human acute T cell leukemia cells and CD80 expression CHO stable cell line.</p> <p>Assay #2: Immobilized B7-2(CD86), His, Human (Cat. No.: Z03452) at 2.0 µg/ml (100 µl/well) can bind CTLA-4, hFc, Human.</p>
<b>Expression System</b>	CHO
<b>Formulation Reconstitution</b>	<p>Lyophilized from a 0.2 µm filtered solution in PBS.</p> <p>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.</p>
<b>Storage &amp; Stability</b>	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.

## Additional Information

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<b>Gene ID</b>	1493
<b>Other Names</b>	Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, CTLA4, CD152
<b>Target Background</b>	<p>Cytotoxic T lymphocyte-associated molecule-4 (CTLA-4) is a cell surface molecule that is closely related to CD28, and a powerful negative regulator of T cell activation. Structurally, CTLA-4 is a member of the Ig superfamily, having a single extracellular V-like domain, homology with CD28; The overall sequence homology between CD28 and CTLA-4 is about 20%, but they share a 27% (murine) to 31% (human) identity at the amino acid level. Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA-4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.</p>

## Protein Information

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<b>Name</b>	CTLA4
<b>Synonyms</b>	CD152
<b>Function</b>	Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein. Note=Exists primarily an intracellular antigen whose surface expression is tightly regulated by restricted trafficking to the cell surface and rapid internalization
<b>Tissue Location</b>	Widely expressed with highest levels in lymphoid tissues. Detected in activated T-cells where expression levels are 30- to 50-fold less than CD28, the stimulatory coreceptor, on the cell surface following activation.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.