



# Recombinant Protein Technical Manual

## Recombinant Cynomolgus CTLA-4/CD152 Protein (His Tag) RPES3155

### Product Data:

**Product SKU:** RPES3155

**Size:** 10µg

**Species:** Cynomolgus

**Expression host:** Human Cells

**Uniprot:** G7PL88

### Protein Information:

**Molecular Mass:** 14.1 kDa

**AP Molecular Mass:** 20 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; CTLA4

## Immunogen Information:

**Sequence:** Ala37-Ser160

## Background:

Cytotoxic T lymphocyte 4 (CTLA-4, CD152), is a type I transmembrane T cell inhibitory molecule that is a member of the Ig superfamily. CD28 and CTLA-4, together with their ligands, B7 and B7-2, constitute one of the dominant costimulatory pathways that regulate T and B cell responses. CD28 and CTLA-4 are structurally homologous molecules that are members of the immunoglobulin (Ig) gene superfamily. CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may play an important role in their functions. T cell activation through the T cell receptor and CD28 leads to increased expression of CTLA4.