



# Recombinant Protein Technical Manual

## Recombinant Human CD86/B7-2 Protein (Val185Ile, His Tag)(Active) RPES3596

### Product Data:

**Product SKU:** RPES3596

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P42081

### Protein Information:

**Molecular Mass:** 26.69 kDa

**AP Molecular Mass:** 50 kDa

**Tag:** C-His

**Bio-activity:** Immobilized Human CTLA-4-Fc-Avi(Cat: PKSH033803) at 2µg/ml(100 µl/well) can bind Human B7-2-His. The ED50 of Human B7-2-His is 1.98ug/ml .

**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 20mM PB, 150mM NaCl, pH 7.2.

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

**Application:** Functional ELISA

**Synonyms:** T-Lymphocyte Activation Antigen CD86; Activation B7-2 Antigen; B70; BU63; CTLA-4 Counter-Receptor B7.2; FUN; CD86; CD28LG2;B7-2;B7.2;CD28LG2;LAB72

## Immunogen Information:

**Sequence:** Ala24-Pro247(Val185Ile)

## Background:

The protein is the receptor that involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. It may play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation. The protein interacts with MARCH8, human herpesvirus 8 MIR2 protein, adenovirus subgroup B fiber proteins and acts as a receptor for these viruses. It is expressed by activated B-lymphocytes and monocytes and promoted by MARCH8 and results in endocytosis and lysosomal degradation. It contains 1 Ig-like C2-type(immunoglobulin-like) domain and 1 Ig-like V-type (immunoglobulin-like) domain.