



Recombinant Protein Technical Manual  
Recombinant Rhesus macaque ICOS/AILIM/CD278  
Protein (Fc Tag)  
RPES3791

### Product Data:

**Product SKU:** RPES3791

**Size:** 10µg

**Species:** Rhesus macaque

**Expression host:** Human Cells

**Uniprot:** H9Z062

### Protein Information:

**Molecular Mass:** 40.8 kDa

**AP Molecular Mass:** 50-60 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 90% 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:** Inducible T-cell costimulator; activation-inducible lymphocyte immunomediatory molecule; CD278; AILIM; CVID1; ICOS

## Immunogen Information:

**Sequence:** Gly20-Lys140

## Background:

Inducible T-cell costimulator, also known as activation-inducible lymphocyte immunomediatory molecule, CD278, AILIM, CVID1 and ICOS, belongs to the CD28 and CTLA4 cell surface receptor family. . ICOS contains one Ig-like V-type domain and exists as a homodimer with disulfide-linked. ICOS is highly expressed on tonsillar T-cells and can be induced by PMA and ionomycin, ICOS plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. Defects in ICOS are the cause of immunodeficiency common variable type 1, which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.