



## Recombinant Protein Technical Manual

**Recombinant Rat BTLA/CD272 Protein (ECD, Fc Tag)(Active)**  
RPES3140

### Product Data:

**Product SKU:** RPES3140

**Size:** 50µg

**Species:** Rat

**Expression host:** HEK293 Cells

**Uniprot:** NP\_998795.1

### Protein Information:

**Molecular Mass:** 43.4 kDa

**AP Molecular Mass:**

**Tag:** C-Fc

**Bio-activity:** 1. Measured by its binding ability in a functional ELISA.2. Immobilized rat BTLA-mFc at 10 µg/mL (100 µL/well) can bind mouse HVEM-Fc. The EC50 of mouse EFNA5-Fc is 6.24.4 ng/mL.

**Purity:** > 90 % as determined by SDS-PAGE

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

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 sterile PBS, pH 7.4

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

**Application:** Functional ELISA

**Synonyms:** BTLA

## Immunogen Information:

**Sequence:** Ala6-Tyr183

## Background:

BTLA is an inhibitory molecule which belongs to the Ig superfamily. It down-modulates immune responses. As such, reagents that regulate the binding of BTLA to its ligand or alter BTLA signaling have significant therapeutic promise. BTLA is crucial to understand the mechanism(s) of action of these antibodies before attempting clinical applications. BTLA is not expressed by naive T cells, but it is induced during activation and remains expressed on T helper type 1 (T(H)1) but not T(H)2 cells. BTLA is a third inhibitory receptor on T lymphocytes with similarities to cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) and programmed death 1 (PD).