## Recombinant Rat BTLA/CD272 Protein (ECD, Fc Tag)

### Catalog No. PKSR030140

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Synonyms	BTLA
Species	Rat
Expression Host	HEK293 Cells
Sequence	Ala6-Tyr183
Accession	NP_998795.1
Calculated Molecular Weight	43.4 kDa
Tag	C-mFc
Bioactivity	Immobilized rat BTLA-mFc at 10 $\mu$ g/mL (100 $\mu$ L/well) can bind mouse HVEM-Fch. The EC50 of mouse EFNA5-Fc is 6. 2-14.4 ng/mL.
Properties	
Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
Storage	Generally, 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	



> 90 % as determined by reducing SDS-PAGE.

## Background

BTLA is a 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.

### **For Research Use Only**

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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-1).