



Recombinant Protein Technical Manual  
Recombinant Human LAG3/CD223 Protein (mFc Tag)  
RPES1064

Product Data:

**Product SKU:** RPES1064

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P18627

Protein Information:

**Molecular Mass:** 72.7 kDa

**AP Molecular Mass:** 90 kDa

**Tag:** C-mFc

**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:** Lymphocyte activation gene 3 protein;LAG3;LAG-3;Protein FDC;CD223;LAG-3

## Immunogen Information:

**Sequence:** Leu23-Leu450

## Background:

Human Lymphocyte activation gene 3 protein (LAG3) is a member of immunoglobulin (Ig) superfamily. LAG3 contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. LAG3 is involved in lymphocyte activation and can bind to HLA class-II antigens. It is selectively expressed in activated T and NK cells. LAG3 has a negative regulatory function in T cells and acts as a new marker of T cell induced B cell activation. As a soluble molecule, LAG3 activates antigen-presenting cells through MHC class II signaling. It can lead to increased antigen-specific T-cell responses in vivo. LAG-3 has higher affinity to MHC class II than CD4.