

# Recombinant Cynomolgus CD19 Protein (Met1-Lys292), His-tagged

**Cat. No.** CD19-1075C    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Cynomolgus CD19 Protein (XP\_005591597.1) (Met1-Lys292) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

**Species**      Cynomolgus

**Source**      HEK293

**ProteinLength**      Met1-Lys292

**Description**      The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 32 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that assembles with the antigen receptor of B-cells. This results in a descent in threshold for antigen receptor-dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell coreceptor in conjunction with CD21 and

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CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to slg.

**Predicted N Terminal** Gln 21

**Form** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Molecular Mass** The recombinant cynomolgus/rhesus CD19 consists of 283 amino acids and predicts a molecular mass of 31.4 kDa.

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

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

**Stability** Samples are stable for up to twelve months from date of receipt at -70 centigrade.

**Storage** Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

**Shipping** In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.  
Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

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<b>Gene Name</b>	CD19 CD19 molecule [ <i>Macaca fascicularis</i> (crab-eating macaque) ]
<b>Official Symbol</b>	CD19
<b>Gene ID</b>	102145514
<b>mRNA Refseq</b>	XM_005591540
<b>Protein Refseq</b>	XP_005591597

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