

Cynomolgus/Rhesus macaque CD19 Protein, Ultra Low Endotoxin



Cat. No. CD1-CM119-UL

Description	
Source	Recombinant Cynomolgus/Rhesus macaque CD19 Protein is expressed from HEK293 with His tag at the N-terminus It contains Gln21-Trp291.
Accession	A0A2K5W8L9(Cynomolgus) /F7F486(Rhesus macaque)
Molecular Weight	The protein has a predicted MW of 30.96 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

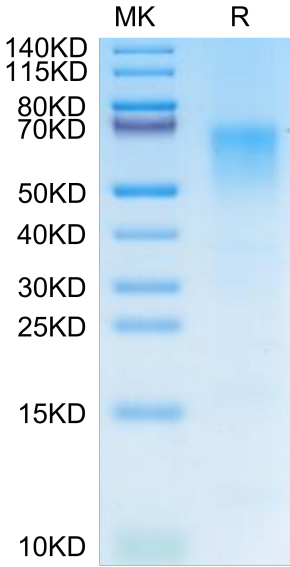
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**Background**

CD19 is a 95 kDa transmembrane glycoprotein that plays a central role in B cell activation and humoral immune responses. Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens. Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca<sup>2+</sup> stores.

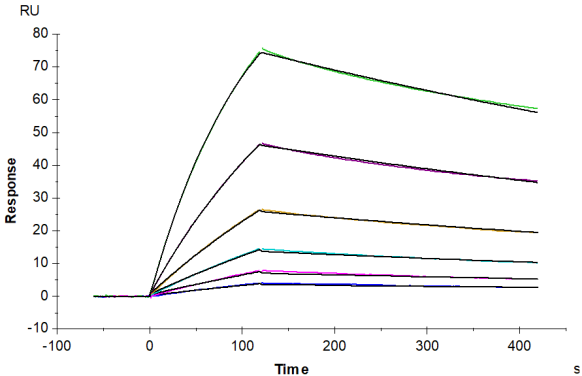
**Assay Data**

**Bis-Tris PAGE**



Cynomolgus/Rhesus macaque CD19 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SPR Data**



Anti-CD19 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus/Rhesus macaque CD19, His Tag with an affinity constant of 0.46 µM as determined in SPR assay (Biacore T200).