Human CD19 Protein

Cat. No. CD1-HM119



Description	
Source	Recombinant Human CD19 Protein is expressed from HEK293 with His tag at the C-Terminus
	It contains Pro20-Lys291.
Accession	P15391-1
Molecular Weight	The protein has a predicted MW of 34.7 kDa. Due to glycosylation, the protein migrates to 50-60 KDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

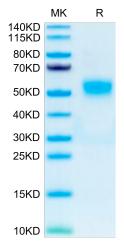
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Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
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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 Ca2 stores.

Assay Data

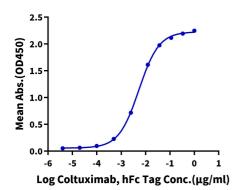
Bis-Tris PAGE



Human CD19 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human CD19, His Tag ELISA 0.2μg Human CD19, His Tag Per Well



Immobilized Human CD19, His Tag at 2 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Coltuximab, hFc Tag with the EC50 of 5.3 ng/ml determined by ELISA (QC Test).

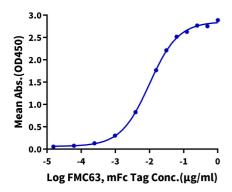
KAGTUS

Assay Data

ELISA Data

Human CD19, His Tag ELISA

0.2μg Human CD19, His Tag Per Well

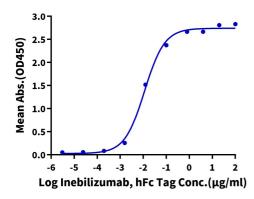


Immobilized Human CD19, His Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for FMC63, mFc Tag with the EC50 of 10.0 ng/ml determined by ELISA (QC Test).

ELISA Data

Human CD19, His Tag ELISA

0.1μg Human CD19, His Tag Per Well

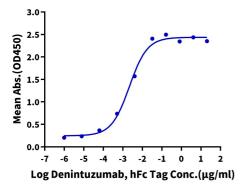


Immobilized Human CD19, His Tag at 1 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Inebilizumab, hFc Tag with the EC50 of 11.5 ng/ml determined by ELISA.

ELISA Data

Human CD19, His Tag ELISA

0.1μg Human CD19, His Tag Per Well



Immobilized Human CD19, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Denintuzumab, hFc Tag with the EC50 of 2.1 ng/ml determined by ELISA.

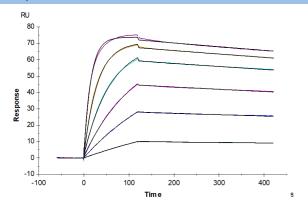
SPR Data

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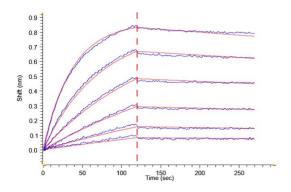
KAGTUS

Assay Data



Anti-CD19 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human CD19, His Tag with an affinity constant of 0.50 nM as determined in SPR assay (Biacore T200).

BLI Data



Loaded Denintuzumab, hFc Tag on ProA-Biosensor, can bind Human CD19, His Tag with an affinity constant of 3.73 nM as determined in BLI assay (Gator).