

Recombinant Human CD19, Fc-tagged, Biotinylated

Cat. No. CD19-280H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human CD19 Protein, With C-Fc Tag (Biotinylated rhCD19-Fc) Pro 20 - Lys 291, was labeled with biotin based on rhCD19-Fc Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	20-291 a.a.
Description	Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated rhCD19-Fc, fused with Fc fragment of human IgG1 at the C-terminus, has a calculated MW of 56.3 kDa. The predicted N-terminus is Pro 20. DTT-reduced Protein migrates as 56-66 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated rhCD19-Fc by the LAL method.

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Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin
GENE INFORMATION	
Gene Name	CD19 CD19 molecule [Homo sapiens]
Official Symbol	CD19
Synonyms	CD19; CD19 molecule; CD19 antigen; B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4; B4; CVID3; MGC12802;
Gene ID	930
mRNA Refseq	NM_001178098
Protein Refseq	NP_001171569
MIM	107265
UniProt ID	P15391
Chromosome Location	16p11.2
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Activates B Cell

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Receptor Leading to Generation of Second Messengers, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

Function	receptor signaling protein activity;
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