

## Recombinant Human CD19 Protein (20-291), C-His-tagged

**Cat. No.** CD19-26H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CD19 (20-291) was expressed in CHO cells using a C-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	20-291
<b>Description</b>	B-lymphocyte antigen CD19 is a type I transmembrane protein present on all B cells and is a dominant signaling component of mature B cells. CD19 acts as a critical coreceptor for B cell receptor (BCR) signal transduction by recruiting and amplifying the activation of Src-family protein tyrosine kinases such as Lyn and Fyn. CD19 also enhances BCR-induced signaling crucial for B cell expansion through recruitment and activation of PI3K and downstream AKT kinases. CD19-deficient humans and mice exhibit hypo-responsiveness to transmembrane signals, and weak T cell-dependent humoral responses, leading to an overall impaired immune response.
<b>Molecular Mass</b>	Observed MW: ~50-65 kDa. Calculated MW: ~31 kDa.
<b>Purity</b>	The purity of CD19 was determined to be ~ 75 % by densitometry.
<b>Stability</b>	One year at -70 centigrade from date of shipment.

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<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.2 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
<b>Shipping</b>	Dry ice

## GENE INFORMATION

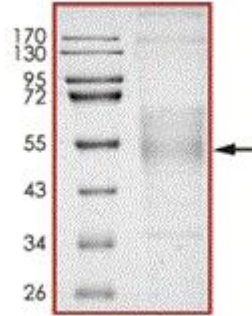
<b>Gene Name</b>	CD19 CD19 molecule [ Homo sapiens (human) ]
<b>Official Symbol</b>	CD19
<b>Synonyms</b>	CD19; CD19 molecule; CD19 antigen; B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4; B4; CVID3; MGC12802;
<b>Gene ID</b>	930
<b>mRNA Refseq</b>	NM_001178098
<b>Protein Refseq</b>	NP_001171569
<b>MIM</b>	107265
<b>UniProt ID</b>	P15391

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Purity



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