

BCL6 Protein, Human, Recombinant

General Information

Synonyms:	BCL6; Zinc finger and BTB domain-containing protein 27; Protein LAZ-3; B-cell lymphoma 6 protein; B-cell lymphoma 5 protein (BCL-5); BCL5; ZNF51; Zinc finger protein 51; BCL-6; ZBTB27; LAZ3
Protein Construction:	1-706 aa
Species:	Human
Expression Host:	E. coli
Accession:	P41182
Molecular Weight:	79.0 kDa (predicted)
AA Sequence:	<p>MASPADSCIQFTRHASDVLLNLRNLRSDILTDDVVIVVSREQFRAHKTVLMACSGLFYSIFTDQLKCNLSVINLD PEINPEGFCILLDFMYTSRLNLRGNIMAVMATAMYLQMEHVVDTCRKFIKASEAEMVSAIKPPREEFLNSRML MPQDIMAYRGREVENNLRPLRSAPGCESRAFAPSLYSGLSTPPASYSMSYHLPVSSLLFSDEEFRDVRMPVA NPFPKERALPCDSARPVPGEYSRPTLEVSPNVCHSNIYSPKETIPEEARSMDMHYSVAEGLKPAAPSARNAPYF PCDKASKEEERPSEDEIALHFEPNAPLNRKGLVSPQSPQKSDCQNSPTESCSSKNACILQASGSPPAKSP TDPKACNWKKYKFIVLNSLNQNAKPEGPEQAEGLRSPRAYTAPPACQPPMEPENLDLQSPTKLSASGEDST IPQASRLNIVNRSMTGSPRSSSESHSPLYMHPPKCTSCGSQSPQHAEMCLHTAGPTFPEEMGETQSEYSDS SCENGAFFCNECDCRFSEEASLKRHTLQTHSDKPYKCDRCQASFRYKGNLASHKTVHTGEKPYRCNICGAQF NRPANLKTHTRIHSGEKPYKCETCGARFVQVAHLRAHVLIHTGEKPYPCIEICGTRFRHLQTLKSHLRIHTGEKP YHCEKCNLHFRHKSQRLRLHLRQKHGAI T NTKVQYRVSATDLPELPKAC</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Transcriptional repressor mainly required for germinal center (GC) formation and antibody affinity maturation which has different mechanisms of action specific to the lineage and biological functions. Forms complexes with different corepressors and histone deacetylases to repress the transcriptional expression of different subsets of target genes. Represses its target genes by binding directly to the DNA sequence 5'-TTCCTAGAA-3' (BCL6-binding site) or indirectly by repressing the transcriptional activity of transcription factors. In GC B-cells, represses genes that function in differentiation, inflammation, apoptosis and cell cycle control, also autoregulates its transcriptional expression and up-regulates, indirectly, the expression of some genes important for GC reactions, such as AICDA, through the repression of microRNAs expression, like miR155. An important function is to allow GC B-cells to proliferate very rapidly in response to T-cell dependent antigens and tolerate the physiological DNA breaks required for immunoglobulin class switch recombination and somatic hypermutation without inducing a p53/TP53-dependent apoptotic response. In follicular helper CD4(+) T-cells (T(FH) cells), promotes the expression of T(FH)-related genes but inhibits the differentiation of T(H)1, T(H)2 and T(H)17 cells. Also required for the establishment and maintenance of immunological memory for both T- and B-cells. Suppresses macrophage proliferation through competition with STAT5 for STAT-binding motifs binding on certain target genes, such as CCL2 and CCND2. In response to genotoxic stress, controls cell cycle arrest in GC B-cells in both p53/TP53-dependent and -independent manners. Besides, also controls neurogenesis through the alteration of the composition of NOTCH-dependent transcriptional complexes at selective NOTCH targets, such as HES5, including the recruitment of the deacetylase SIRT1 and resulting in an epigenetic silencing leading to neuronal differentiation.

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