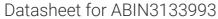
# antibodies .- online.com





# BCL6 Protein (AA 1-707) (His tag)





## Go to Product page

#### Overview

Quantity:	1 mg
Target:	BCL6
Protein Characteristics:	AA 1-707
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCL6 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

## **Product Details**

Sequence:

MASPADSCIQ FTRHASDVLL NLNRLRSRDI LTDVVIVVSR EQFRAHKTVL MACSGLFYSI FTDQLKCNLS VINLDPEISP EGFCILLDFM YTSRLNLREG NIMAVMTTAM YLQMEHVVDT CRKFIKASEA EMAPALKPPR EEFLNSRMLM PHDIMAYRGR EVVENNMPLR NTPGCESRAF APPLYSGLST PPASYPMYSH LPLSTFLFSD EELRDAPRMP VANPFPKERA LPCDSARQVP NEYSRPAMEV SPSLCHSNIY SPKEAVPEEA RSDIHYSVPE GPKPAVPSAR NAPYFPCDKA SKEEERPSSE DEIALHFEPP NAPLNRKGLV SPQSPQKSDC QPNSPTESCS SKNACILQAS GSPPAKSPTD PKACNWKKYK FIVLNSLNQN AKPEGSEQAE LGRLSPRAYP APPACQPPME PANLDLQSPT KLSASGEDST IPQASRLNNL VNRSLAGSPR SSSESHSPLY MHPPKCTSCG SQSPQHTEMC LHTAGPTFPE EMGETQSEYS DSSCENGTFF CNECDCRFSE EASLKRHTLQ THSDKPYKCD RCQASFRYKG NLASHKTVHT GEKPYRCNIC GAQFNRPANL KTHTRIHSGE KPYKCETCGA RFVQVAHLRA HVLIHTGEKP YPCEICGTRF RHLQTLKSHL RIHTGEKPYH CEKCNLHFRH KSQLRLHLRQ KHGAITNTKV QYRVSAADLP PELPKAC

Characteristics:

# Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. Mouse Bcl6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

### Purification:

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

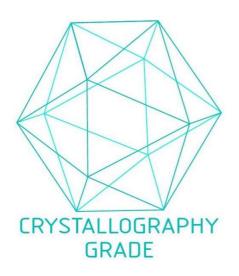
# **Target Details**

Target:	BCL6
Alternative Name:	Bcl6 (BCL6 Products)
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 targe
	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 fo
	immunglobulin 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-
	dependedent 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 resultin
	in an epigenetic silencing leading to neuronal differentiation. {ECO:0000269 PubMed:10981963
	ECO:0000269 PubMed:12021781, ECO:0000269 PubMed:23160044,
	ECO:0000269 PubMed:23166356, ECO:0000269 PubMed:23455674}.
Molecular Weight:	79.9 kDa Including tag.
JniProt:	P41183
Pathways:	Chromatin Binding, Regulation of Leukocyte Mediated Immunity, Production of Molecular
	Mediator of Immune Response, Protein targeting to Nucleus
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

## **Application Details**

Application Details		
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process