

BCL10 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	CLAP;B-cell lymphoma/leukemia 10;CIPER;CARD-containing molecule enhancing NF-kappa-B;Mammalian CARD-containing adapter molecule E10 (mE10);CED-3/ICH-1 prodomain homologous E10-like regulator (CIPER);BCL10;Cellular homolog of vCARMEN (cCARMEN);B-cell CLL/lymphoma 10 (Bcl-10);CARD-like apoptotic protein (hCLAP);Cellular-E10 (c-E10)
Protein Construction:	1-233 aa
Species:	Human
Expression Host:	E. coli
Accession:	O95999
Molecular Weight:	42.3 kDa (predicted)
AA Sequence:	MEPTAPSLTEEDLTEVKKDALENLRVYLCEKIIAERHFDHLRAKKILSREDTEEISCRSSSRKRAGKLLDYLQENP KGLDTLVESIRREKTQNFLIQKITDEVLKLRLNIKLEHLKGLKCSCEPFDGATNNLSRSNSDESINFSEKLRASV MYHPEGESSTTPFFSTNSSLNLPVLEVGRTEINTIFSSTTLPRPGDPGAPPLPPDLQLEEEGTCA NSSEMFLPLRS RTVSRQ

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Plays a key role in both adaptive and innate immune signaling by bridging CARD domain-containing proteins to

A DRUG SCREENING EXPERT

immune activation. Acts by channeling adaptive and innate immune signaling downstream of CARD domain-containing proteins CARD9, CARD11 and CARD14 to activate NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines. Recruited by activated CARD domain-containing proteins: homooligomerized CARD domain-containing proteins form a nucleating helical template that recruits BCL10 via CARD-CARD interaction, thereby promoting polymerization of BCL10, subsequent recruitment of MALT1 and formation of a CBM complex. This leads to activation of NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines. Activated by CARD9 downstream of C-type lectin receptors; CARD9-mediated signals are essential for antifungal immunity. Activated by CARD11 downstream of T-cell receptor (TCR) and B-cell receptor (BCR). Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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