

Datasheet for ABIN7553547
CRBN Protein (AA 1-442) (His tag)



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Overview

Quantity:	1 mg
Target:	CRBN
Protein Characteristics:	AA 1-442
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRBN protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CRBN Protein expressed in mammalian cells.
Sequence:	MAGEGDQQDA AHNMGNHLPL LPAESEEEDE MEVEDQDSKE AKKPNIINFDTSLPTSHTYL GADMEEFHGR TLHDDDSCQV IPVLPQVMMI LIPGQTLPLQ LFHPQEVSMV RNLIQKDRTF AVLAYSINVQE REAQFGTTAE IYAYREEQDF GIEIVKVKAI GRQRFKVLLEL RTQSDGIQQA KVQILPECVL PSTMSAVQLE SLNKCQIFPS KPVSREDQCS YKWWQKYQKR KFHCANLTSW PRWLYSLYDA ETLMDRIKKQ LREWENLKD DSLPSNPIDF SYRVAACLPI DDVLRIQLLK IGSAIQLRRC ELDIMNKCTS LCKKQCQETE ITTKNEIFSL SLCGPMAAYV NPHGYVHETL TVYKACNLNL IGRPSTESHW FPGYAWTVAQ CKICASHIGW KFTATKKDMS PQKFWGLTRS ALLPTIPDTE DEISPDKVL CL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

CRBN

Alternative Name:

CRBN ([CRBN Products](#))

Background:

Protein cereblon,FUNCTION: Substrate recognition component of a DCX (DDB1-CUL4-X-box) E3 protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as MEIS2 or ILF2 (PubMed:33009960). Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8 (PubMed:20223979, PubMed:24328678, PubMed:25043012, PubMed:25108355). Maintains presynaptic glutamate release and consequently cognitive functions, such as memory and learning, by negatively regulating large-conductance calcium-activated potassium (BK) channels in excitatory neurons (PubMed:18414909, PubMed:29530986). Likely to function by regulating the assembly and neuronal surface expression of BK channels via its interaction with KCNT1 (PubMed:18414909). May also be involved in regulating anxiety-like behaviors via a BK channel-independent mechanism (By similarity). Plays a negative role in TLR4 signaling by interacting with TRAF6 and ECSIT, leading to inhibition of ECSIT ubiquitination, an important step of the signaling (PubMed:31620128).

Target Details

{ECO:0000250|UniProtKB:Q8C7D2, ECO:0000269|PubMed:18414909, ECO:0000269|PubMed:20223979, ECO:0000269|PubMed:24328678, ECO:0000269|PubMed:25043012, ECO:0000269|PubMed:25108355, ECO:0000269|PubMed:29530986, ECO:0000269|PubMed:31620128}.

Molecular Weight: 50.5 kDa

UniProt: [Q96SW2](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months