

## Protein cereblon (CRBN) Recombinant Protein | CRBN recombinant protein

Recombinant Human Protein cereblon (CRBN)

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA18789</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|------------------------------|-----------------------------------------------------------------|

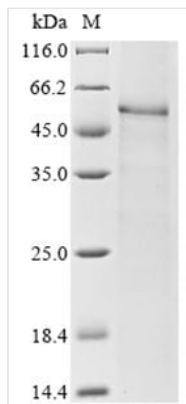
### PRODUCT SYNONYMS

Protein cereblon (CRBN); Recombinant Human Protein cereblon (CRBN); Protein cereblon; CRBN recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity/Purification     | >=85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence Positions      | 1-442aa; Full length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence                | MAGEGDQQDA AHNMG NHLPL LPAESEEDE MEVEDQDSKE AKKPNIINFDTSLPTSHTYL GADMEEFHGR<br>TLHDDSCQV IPVLPQVMMI LIPGQTLPLQ LFHPQEVS MV RNLIQKDRTF AVLAYS NVQE REAQFGTTAE<br>IYAYREEQDF GIEIVKV KAI GRQRFK VLEL RTQSDGIQQA KVQILPECVL PSTMSAVQLE SLNKCQIFPS<br>KPVSRDQCS YKWWQKYQKR KFHCANLTSW PRWLYSLYDA ETLM DRIKKQ LREWDENLKD DSLPSNPIDF<br>SYRVAACLPI DDVLRIQLLK IGSAIQRLRC ELDIMNKCTS LCCKQCQETE ITTKNEIFSL SLCGPMAAYV<br>NPHGYVHETL TVYKACNLNL IGRPSTEHSW FPGYAWTVAQ CKICASHIGW KFTATKKDMS PQKFWGLTRS<br>ALLPTIPDTE DEISPDK VIL CL |
| Species                 | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                                                                                                                                                                         |

### IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CRBN recombinant protein | 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. Normal degradation of key regulatory proteins is required for normal limb outgrowth and expression of the fibroblast growth factor FGF8. May play a role in memory and learning by regulating the assembly and neuronal surface expression of large-conductance calcium-activated potassium channels in brain regions involved in memory and learning via its interaction with KCNT1. Binding of pomalidomide and other thalidomide-related drugs changes the substrate specificity of the human protein, leading to decreased degradation of MEIS2 and other target proteins and increased degradation of MYC, IRF4, IKZF1 and IKZF3. |
| Product Categories/Family for CRBN recombinant protein   | Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                               | "The DNA sequence, annotation and analysis of human chromosome 3." Muzny D.M., Scherer S.E., Kaul R., Wang J., Yu J., Sudbrak R., Buhay C.J., Chen R., Cree A., Ding Y., Dugan-Rocha S., Gill R., Gunaratne P., Harris R.A., Hawes A.C., Hernandez J., Hodgson A.V., Hume J. Gibbs R.A. Nature 440:1194-1198(2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 291045198                                              |
| NCBI GeneID                      | 51185                                                  |
| NCBI Accession #                 | NP_001166953.1                                         |
| NCBI GenBank Nucleotide #        | NM_001173482.1                                         |
| UniProt Accession #              | Q96SW2; Q6AI62; Q6NVZ0; Q9UHW4; B2R6H4; C9IZA9; C9JAH6 |
| Molecular Weight                 | 52.5 kDa                                               |
| NCBI Official Full Name          | protein cereblon isoform 2                             |
| NCBI Official Synonym Full Names | cereblon                                               |
| NCBI Official Symbol             | CRBN                                                   |
| NCBI Official Synonym Symbols    | MRT2; MRT2A                                            |
| NCBI Protein Information         | protein cereblon; protein x 0001                       |
| UniProt Protein Name             | Protein cereblon                                       |
| UniProt Gene Name                | <b>CRBN</b>                                            |
| UniProt Synonym Gene Names       | AD-006                                                 |
| UniProt Entry Name               | CRBN_HUMAN                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/crbn-recombinant-protein-e-coli/18789>