

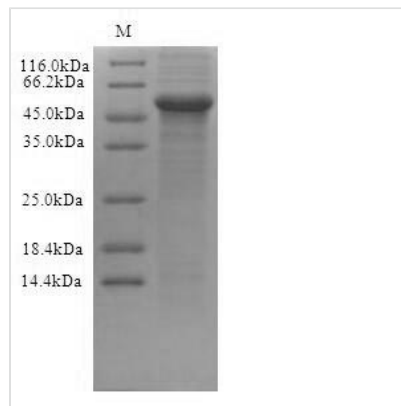


Recombinant Human Protein cereblon (CRBN)

Product Code	CSB-CF842761HUc7
Relevance	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
Abbreviation	Recombinant Human CRBN protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96SW2
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAGEGDQQDAAHNMGNHLPLLPAAESEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDDSCQVIPVLPQVMMILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFAYLAYSNVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGRQRFKVLRLTQSDGIQQAQVQILPECVLPSTMSAVQLESLNKCQIFPSKPVSR EDQCSYKWWQKYQKRKFHCANLTSPRWLYSLYDAETLMDRIKKQLREWDE NLKDDSLPSNPIDFSYRVAACLPIDDLRIQLLKIGSAIQRLRCELDIMNKCTSLC CKQCQETEITTKNEIFSLSLCGPMAAYVNPHGYVHETLTVYKACNLNLIGRPST EHSWFPGYAWTVAQCKICASHIGWKFTATKKDMSPQKFWGLTRSALLPTIPDTEDEISPDKVILCL
Research Area	Neuroscience
Source	in vitro E.coli expression system
Target Names	CRBN
Expression Region	1-442aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	51.2kDa
Protein Length	Full Length



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Cereblon/CRBN Protein CSB-CF842761HUc7 is a Recombinant Human Cereblon/CRBN generated in vitro E.coli expression system. This full-length recombinant protein contains 1-442aa of human-origin CRBN protein and carries a 6xHis-tag at the C-terminus. The SDS-PAGE assay determined its purity to be greater than 90%. It has a predicted molecular weight of 51.2 kDa. And this protein is in stock, eliminating the waiting period for protein preparation. In addition to serve as an immunogen for antibody production, this CRBN recombinant protein find studies in the neuroscience field.

Cereblon (CRBN) gets this name because of its supposed role in the development of cerebral tissues and its association with memory ?learning processes in the hippocampus. It is a multifunctional protein involved in many biological processes such as cell metabolism, cell proliferation ? apoptosis, and disease genesis, including cardiovascular disease, obesity, and fatty liver.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.