Product Name: CRBN / DDB1(ΔB)

Alternate Names: Cereblon, CRBN (MRX69, AD-006)

Product Code: TE3-085

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

CRBN / DDB1(ΔB) is active in ternary complex formation assays using recombinant BRD4 and the degrader molecule dBET-1 and is also useful in proteomics approaches.

This protein will NOT interact with CUL4.

Physical Characteristics

Species: Human

Predicted MW (kDa): CRBN: 55 kDa
DDB1(ΔB): 96 kDa

Source: Sf9 (*S. frugiperda*)

Purity: 95 %

Tags: CRBN: N-FLAG-TEV
DDB1(ΔB): N-His_8-TEV

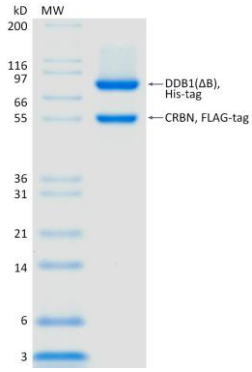
Formulation: 25 mM HEPES, 150 mM NaCl, 1 mM TCEP, pH 7.5.

Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE



2 µg CRBN / DDB1(ΔB) run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ternary Complex Assay.

Protein ID: Protein cereblon, DNA damage-binding protein 1

Background

Description

Recombinant human CRBN / DDB1(ΔB) is co-purified as a stable complex. The CRBN contains an N-terminal FLAG-TEV tag. DDB1 contains an N-terminal His_8-TEV tag. Because of the deletion of β-propeller B (Δ I396-D705) in DDB1, this fusion DOES NOT associate with CUL4A, nor ubiquitylate substrates *in vitro*.

Accession Number: Q96SW2

Entrez Gene ID: CRBN

Accession Number: Q16531

Entrez Gene ID: DDB1

Protein Sequences

CRBN:

MDYKDDDDKSAVDENLYFQGGGRGGSAHIVMVDAYKPTKGGSGMAGEGDQQDAAHNMGNHLPL
LPAESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDSCQVIPV
LPQVMMILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFAVLAYSNVQEREAQFGTTAEIYAYRE
EQDFGIEIVKVKAIGRQRFKVLELRTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQIFP
SKPVSREDQCSYKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENLKDDS
LPSNPIDFSYRVAACLPIDDVLRIQLLKIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKN
EIFSLSLCGPMAAYVNPHGYVHETLTVYKACNLNLIGRPSTEHSWFPGYAWTVAQCKICASHI
GWKFTATKKDMSPQKFWGLTRSALLPTIPDTEDEISPDKVILCL

DDB1(ΔB):

MGSSHHHHHHHHSAVDENLYFQGGGRMSYNYVVTAQKPTAVNGCVTGHFTSAEDLNLLIAKNT
RLEIYVVTAEGLRPVKEVGMYGKIAVMELFRPKGESKDLLFILTAKYNACILEYKQSGESIDI
ITRAHGNVQDRIGRPSETGIIGIIDPECRMIGLRLYDGLFKVIPLDRDNKELKAFNIRLEELH
VIDVKFLYGCQAPTICFVYQDPQGRHVKTYEVSLREKEFNKGPWKQENVEAEASMVIAVPEPF
GGAIIIGQESITYHNGDKYLAIAPPIIKQSTIVCHNRVDPNGSRYLLGDMEGRLFMLLLEKEE
QMDGTVTLKDLRVELLGETSIAECLTYLDNGVVFVGSRLGDSQLVKLNVDSNEQGSYVVAMET
FTNLGPIVDMCVVDLERQGQGQLVTCSGAFKEGSLRIIRNGIGGNGNSGEIQKLHIRTVPLYE
SPRKICYQEVSQCFGVLSSRIEVQDTSGGTTALRPSASTQALSSSVSSSKLFSSSTAPHETSF
GEEVEVHNLLIIDQHTFEVLHAHQFLQNEYALSLVSCKLGKDPNTYFIVGTAMVYPEEAEPKQ
GRIVVFQYSDGKLQTVAEKEVKGAVYSMVEFNGKLLASINSTVRLYEWTTEKELRTECNHYNN
IMALYLKTKGDFILVGDLMRSVLLLAYKPMEGNFEEIARDFNPNWMSAVEILDDDNFLGAENA
FNLFVCQKDSAATTDEERQHLQEVGLFHLGEFVNVFCHGSLVMQNLGETSTPTQGSVLFGTVN
GMIGLVTSLSESWYNLLLDMQNRLNKVIKSVGKIEHSFWRSFHTERKTEPATGFIDGDLIESF
LDISRPKMQEVVANLQYDDGSGMKREATADDLIKVVEELTRIH