

Product Name: FLAG-CRBN / His-DDB1(Δ B)

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

Product Code: TE3-085

Quantity: 25 μ g

FOR RESEARCH USE ONLY (RUO)

Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Verified Applications / Usage

CRBN/DDB1(Δ B) is active in ternary complex formation assays using recombinant BRD4 and the degrader molecule dBET1, and is also useful in proteomics approaches. This protein will NOT interact with CUL4.

Physical Characteristics

Species: Homo sapiens (Human)

Predicted MW (kDa): 55 kDa (FLAG-CRBN) / 96 kDa (His-DDB1 Δ B)

Source: Sf9 (S. frugiperda)

Purity: 95%

Concentration: 10-30 μ M

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

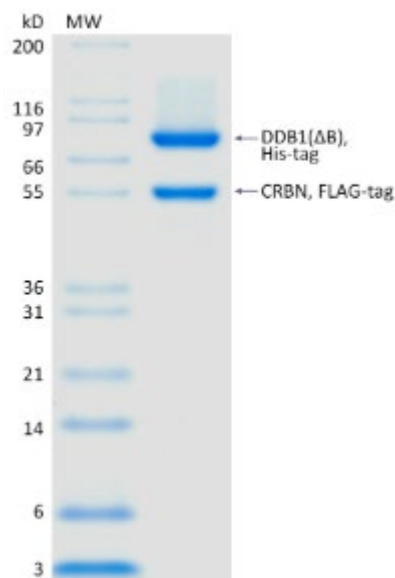
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

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



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

Activity Assay

Ternary Complex Assay

Background

Description

Recombinant human CRBN/DDB1(ΔB) is co-purified as a stable complex. The CRBN contains an N-terminal FLAG-tag and TEV cleavage site. The DDB1 contains an N-terminal His tag and TEV cleavage site. Because of the deletion of β-propeller B (Δ I396-D705) in DDB1, this fusion is NOT capable of associating with CUL4A, nor ubiquitylating substrates in vitro.

Accession Number:
Q16531;Q96SW2

Entrez Gene ID: CRBN;DDB1

Protein Sequence

MDYKDDDDKSAVDENLYFQGGGRGGS AHIVMVDAYKPTKGGSGMAG
EGDQQDAAHNMGNHLP LPAESEEDEMEVEDQDSKEAKKPNIINFDT
SLPTSHTYLGADMEEFHGRTLHDDSDCQVIPVLPQVMMILIPGQTLPLQ
LFHPQEVSMVRNLIQKDRTFAVLAYS NVQEREAQFGTTAEIYAYREEQD
FGIEIVKVKAIGRQRFKVLELRTQSDGIQQAKVQILPECVLPSTMSAVQLE
SLNKCQIFPSKPV SREDQCSYKWWQKYQKRKFHCANLT SWPRWLYSL
YDAETLMDRIKKQLREWDENLKDDSLPSNPIDFSYRVAACL PDDVLRIQ
LLKIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAA
YVNPHGYVHETLTVYKACNLNLIGRPSTEHSWFPGYAWTVAQCKICASH
IGWKFTATKKDMSPQKFWGLTRSALLPTIPDTEDEISPDKVILCL;MGSSH
HHHHHHHSAVDENLYFQGGGRMSYNYVVTAQKPTAVNGCVTGHFTSA
EDLNLLIAKNTRLEIYVVTAEGLRPVKEVGMYGKIAVMELFRPKGESKDL
LFILTAKYNACILEYKQSGESIDIITRAHGNVQDRIGRPSETGIIGIIDPECR
MIGLRLYDGLFKVIPLDRDNKELKAFNIRLEELHVIDVKFLYGCQAPTICF
VYQDPQGRHV KTYEVS LREKEFNKGPWKQENVEAEAS MVIAVPEPFG
GAIIGQESITYHNGDKYLAIAPPIIKQSTIVCHNRVDPNGSRYLLGDMEG
RLFMLLLEKEEQMDGTVTLKDLRVELLGETSIAECLTYLDNGVV FVGSRL
GDSQLVKLNVD SNEQGSYVAMETFTNLGPIVDMCVVDLERQGGGQLV
TCSGAFKEGSLRIIRNGIGGNGNSGEIQKLHIRTVP LYESPRKICYQEV S
QCFGVLSSRIEVQDTSGGTTALRPSASTQALSSSVSSSKLFSSSTAPHE
TSFGEEVEVHNLLIIDQHTFEVLHAHQFLQNEYALSLV SCKLGKDPNTYFI
VGTAMVYPEEAEPKQGRIVVFQYSDGKLQTVAEKEVKGAVYS MVEFNG
KLLASINSTVRLYEWTTEKELRTECNHYN NIMALY LKTKGDFILVGDLMR
SVLLLAYKPMEGNFEEIARDFNP NWMSAVEILDDDNFLGAENAFNL FVC
QKDSAATTDEERQHLQEVGLFHLGEFVNVFCHGSLVMQNLGETSTPTQ
GSVLFGTVNGMIGLVTSLS ESWYNLLLD MQNRLNKVIKSVGKIEHSFWR
SFHTERKTEPATGFIDGDLIESFLDISRPKMQEVVANLQYDDGSGMKRE
ATADDLIKVVEELTRIH