Product Name: CUL1 / RBX1, Neddylated

Alternate Names: Cullin-1; CUL-1

Product Code: TE3-029

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Neddylated CUL1 / RBX1 combined with SKP1 / FBXO22 will ubiquitylate FKBP12 in an SP3CHO-dependent manner using suitable conditions.

Physical Characteristics

Species: Human

Predicted MW (kDa): CUL1: 90 kDa
RBX1: 12 kDa
NEDD8: 8.6 kDa

Source: Sf9 (*S. frugiperda*)

Purity: 85 %

Tags: CUL1: Untagged
RBX1: Untagged
NEDD8: Untagged

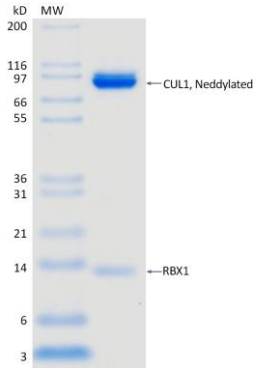
Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 2 mM TCEP, pH 7.6

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 CUL1 / RBX1, run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Protein ID: Cullin-1
E3 ubiquitin-protein ligase RBX1
Ubiquitin-like protein NEDD8

Activity Assay

Active in Ubiquitylation Assay.

Background

Description

Recombinant human CUL1 is co-purified as a stable heterodimer with RBX1, then neddylated. When combined with a SKP1 / FBX complex, E1, E2 and ubiquitin, this fusion is capable of ubiquitylating substrates *in vitro*.

Accession Number: Q13616 **Entrez Gene ID:** CUL1

Accession Number: P62877 **Entrez Gene ID:** RBX1

Accession Number: Q15843 **Entrez Gene ID:** NEDD8

Protein Sequence

CUL1:
MSSTRSQNPHGLKQIGLDQIWDDLRAGIQQVYTRQSMAKSRYMELYTHVYNYCTSVHQSNQAR
GAGVPPSKSKKGQTPGGAQFVGLELYKRLKEFLKNYLTNLLKDGEDLMDESVLKFYTQQWEDY
RFSSKVLNGICAYLNRHWVRRECDEGRKGIYEIYSLALVTWRDCLFRPLNKQVTNAVLKLIEK
ERNGETINTRLISGVVQSYVELGLNEDDAFAKGPTLTVYKESFESQFLADTERFYTRESTEFL
QQNPVTEYMKKAEARLLEEQRRVQVYLHESTQDELARKCEQVLIEKHLEIFHTEFQNLLDADK
NEDLGRMYNLVSRIQDGLGELKKLLETHIHNQGLAAIEKCGEAALNDPKMYVQTVLDVHKKYN
ALVMSAFNNDAGFVAALDKACGRFINNNAVTKMAQSSSKSPELLARYCDSLLKKSSKNPEEAE
LEDTLNQVMVVFKYIEDKDVFQKFYAKMLAKRLVHQNSASDDAEASMISKLKQACGFEYTSKL
QRMFQDIGVSKDLNEQFKKHLTNSEPLDLDFSIQVLSSGSWPFQQSCTFALPSELERSYQRFT
AFYASRHSGRKLTWLYQLSKGELVTNCFKNRYTLQASTFQMAILLQYNTEDAYTVQQLTDSTQ
IKMDILAQVLQILLKSKLLVLEDENANVDEVELKPDTLIKLYLGYKNKKLRVNINVPMKTEQK
QEQETTHKNIEEDRKLLIQAAIVRIMKMRKVLKHQQLLGEVLTQLSSRFKPRVPVIKKCIDIL
IEKEYLERVDGEKDTYSYLA

RBX1:
GSDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCIECQANQASATSE
ECTVAWGVCNHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

NEDD8:
MLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQQRLIYSGKQMNDEKTAADYKILG
GSVLHLVLALRGG